ORIGINAL

Sprint - Florida, Incorporated

Investigation into Pricing of Unbundled Network Elements

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Volume III

Non-Recurring Charges
Dark Fiber
High Capacity Loops

LLL

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS
NON-RECURRING COST STUDY

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UNE NRC Cost Study Overview

Introduction

The purpose of this study is to determine the cost of ordering and installing Unbundled Network Elements (UNE's). Non-Recurring Charges (NRC's) are a one-time charge that is based on the amount of time required to complete an activity and its associated labor rates. These charges represent the most current wage rates and time components related to the work activities required to provide UNE's.

Sprint has assumed a "Forward-looking" network as defined by the FCC. It meets the FCC criteria of being "the most efficient, least-cost and reasonable technology currently available for purchase." Specifically, Sprint assumes Next Generation Digital Loop Carriers (NGDLC's) in the development of non-recurring charges for unbundled loops and assumes the availability of an "Electronic" means for the CLEC to submit local switch activation and dispatch.

Again, assuming a "Forward-Looking Network" Sprint's Non-Recurring charges have been developed based on the principle of matching the charges as closely as possible to the actual costs that would be incurred, rather than developing a single "average" charge. This allows the CLEC to pay only for the work that would actually be done and ensures that Sprint neither over, nor under-recovers non-recurring costs.

Methodology

The study consists of four main steps;

1. Identify the activities performed to complete service order, installation, and other related service functions for each unbundled element.
2. Identify the time related with each function performed above.
3. Identify the labor rates for each work group that completes the activity and multiply that amount by the time identified above.
4. Group the costs by appropriate activities to develop a cost by unbundled element.

The various UNE NRC's reflected in this study have been categorized as follows: 1) Service Order Charges; 2) Installation Charges; and, 3) Other charges. Each section contains detailed descriptions of the charges, how they are applied and how they were developed.

Service Order Charges

A service order charge is one that covers the costs of work performed by the company in connection with the receiving, recording and processing of a customer request for service.
Four types of service order charges related to the work done at the centralized CLEC order center have been developed as follows:

UNE NRC Cost Study Overview

Service Order Charges, cont'd

1. A primary service order that applies to all initial orders received from CLECs, both manual and electronic.
2. A "listing only" order that applies to a directory listing only request, both manual and electronic.
3. A "change only" order that applies to a change in feature, both manual and electronic.
4. A local number portability order that applies to porting an existing Sprint customer to a CLEC, when the customer desires retention of their existing telephone number.

The service order charges above are applied per end user even though the CLEC may transmit a single Local Service Request (LSR) that includes several end users. The cost was developed based on the time to process an end user.

Installation Charges

An installation charge recovers the cost of work performed for connection or reconnection of each unbundled element. Installation charges have been developed for the following elements and the calculations can be referenced on the appropriate workpaper for each item:

1. Analog Loops
2. Digital Loops
3. High Capacity Loops
4. Dark Fiber Loops
5. Sub-Loops
6. xDSL Capable Loops
7. Loop Conditioning
8. UNE-Platform Combinations
9. Enhanced Extended Link
10. Local Switching
11. Switch Features
12. Customized Routing
13. Operator Services Branding
14. Transport

UNE NRC Cost Study Overview

Other Charges

Non-recurring charges which are categorized as "Other" include:

1. OPC Service. Originating Point Codes are generated to allow Sprints SS7 network to identify the originating point of a call. These charges are billed per each request.
2. Global Title Translations charges apply for each service or application that utilizes transaction capabilities. This charge is for each GTT service request.
3. Nid installation is charged when a NID is installed as a separate UNE element and not part of a total loop.
4. Digital Pre-Order Loop Qualification Inquiry
5. Digital Data Loop Cooperative Testing
6. The trouble isolation charge is billed when a CLEC reports trouble on a facility and it is found that the cause is outside of Sprint's Telephone's network, as in the case of inside wire. The trouble isolation charge includes two components. The first recovers the cost of conducting tests at the central office and the second recovers the cost of dispatching an outside technician and determining the cause.
7. The trip charge recovers the cost of an I&R technicians trip to a customers premises.
8. Dark fiber end-to-end testing covers the cost to test dark fiber from end-to-end.

SUMMARY

Service Order Charges	NRC
Service Orders	
Manual Service Order	$ 22.54
Electronic Service Order	$ 3.06
Manual Service Order - Listing Only	$ 11.88
Electronic Service Order - Listing Only	$ 0.33
Manual Service Order - Change Only	$ 11.04
Electronic Service Order - Change Only	$ 1.33
LNP Administrative Charge	$ 6.50

Installation Charges	NRC
Loops - Analog	
2-Wire New - First Line	$ 72.98
2-Wire New - Addt'l Line	$ 23.61
2 Wire Re-install (CT/DCOP/Migrate)	$ 14.21
4-Wire New - First Line	$ 94.15
4-Wire New - Addt'l Line	$ 48.42
4 Wire Re-install (CT/DCOP/Migrate)	$ 25.90
Loops - Digital	
2-Wire ISDN, BRI-IDSL Loop, First Line	$ 107.11
2-Wire ISDN, BRI-IDSL Loop, Addt'l Line	$ 59.47
2-Wire ISDN, BRI-IDSL Loop, Re-install (CT,DCOP,Migrate)	$ 22.65
56, 64 kbps, DS1, ISDN-PRI Loop - First Line	$ 121.68
56, 64 kbps, DS1, ISDN-PRI Loop - Addt'l Line	$ 73.17
56, 64 kbps, DS1, ISDN-PRI Loop - Re-install (CT,DCOP,Migrate)	$ 27.40
Loops - High-Capacity	
Add DS3 to existing system	$ 86.28
Add OC3 to existing system	$ 86.28
Add OC12 to existing system	$ 86.28
Loops - Dark Fiber	
Dark Fiber Loop - Initial Patch Cord Installation, Field Location	$ 20.16
Dark Fiber Loop - Additional Patch Cord Installation, Field Location, Same Time, Same Location	$ 7.20
Dark Fiber Loop - Central Office Interconnection, 1-4 Patch Cords, per C.O.	$ 171.50
Dark Fiber Loop - Special Construction for Fiber Pigtail	ICB
Sub-Loops	
Sub-Loop Interconnection (Stub Cable)	ICB
2-Wire First Line	$ 62.36
2-Wire Addt'l Line	$ 12.99
2-Wire Reinstall	$ 29.45
4-Wire First Line	$ 76.22
4-Wire Addt'l Line	$ 20.79
4-Wire Reinstall Line	$ 38.11
2W Disconnect Charge	$ 20.79
4W Disconnect Charge	$ 25.12
Loops - xDSL-Capable	
All Loops Less Than 18,000 Feet: Load Coil Removal; per xDSL-Capable Loop Order	$ 1.44
2-Wire xDSL Loop - First Line	$ 68.84
2-Wire xDSL Loop - Addt'l Line	$ 19.47
2-Wire xDSL Loop - Re-install (CT,DCOP, Migrate)	$ 10.08
4-Wire xDSL Loop - First Line	$ 85.58
4-Wire xDSL Loop - Addt'l Line	$ 37.08
4-Wire xDSL Loop - Re-install (CT,DCOP, Migrate)	$ 12.96

SUMMARY

Installation Charges (continued)	NRC
Loop Conditioning per Location	
Engineering Charge - one per loop conditioned below	$ 28.03
Travel Charge - one per loop conditioned below	$ 15.59
Load Coil Removal; Loops Over 18,000 Feet	
Unload cable pair, UG, loop > 18kf, per location	$ 397.39
Unload additional cable pair, UG, same time, location & cable, loop > 18kf	$ 3.06
Unload cable pair, AE, loop > 18kf, per location	$ 6.96
Unload addt'l cable pair, AE, same time, location & cable, loop > 18kf	$ 1.61
Unload cable pair, BU, loop > 18kf, per location	$ 6.96
Unload addt'l cable pair, BU, same time, location & cable, loop > 18kf	$ 1.61
Remove Bridged Tap	
Remove Bridged Tap, UG, per location	$ 394.78
Remove one (1) additional Bridged Tap, UG, same time, location & cable	$ 0.45
Remove Bridged Tap, AE, per location	$ 5.74
Remove one (1) additional Bridged Tap, AE, same time, location & cable	$ 0.39
Remove Bridged Tap, BU, per location	$ 5.74
Remove one (1) additional Bridged Tap, BU, same time, location & cable	$ 0.39
Remove Repeater	
Remove Repeater, UG, per location	$ 394.78
Remove additional Repeater, UG, same time, location & cable	$ 0.45
Remove Repeater, AE per location	$ 5.74
Remove additional Repeater, AE same time, location & cable	$ 0.39
Remove Repeater, BU per location	$ 5.74
Remove additional Repeater, BU same time, location & cable	$ 0.39
UNE-Platform Combinations	
UNE-P 2-Wire Analog Loop - First Line, Switching, Common Transport	$ 72.98
UNE-P 2-Wire Analog Loop - Addt'l Line ordered same time to same location, Switching, Common Transport	$ 23.61
UNE-P 2-Wire Analog Loop - Migrate Loop, Switching, Common Transport	$ 14.21
Enhanced Extended Link; Loop, 1/0 Mux, DS1 Transport	
EEL 1 - 2-Wire Analog - First Line	$ 224.39
EEL 1 - 2-Wire Analog - 2nd through 24th Lines, ordered same time for same location	$ 95.22
EEL 1 - 2-Wire Analog - 2nd through 24th Lines, ordered different times	$ 144.59
EEL 1 - 4-Wire Analog - First Line	$ 245.56
EEL 1 - 4-Wire Analog - 2nd through 24th Lines, ordered same time for same location	$ 120.03
EEL 1 - 4-Wire Analog - 2nd through 24th Lines, ordered different times	$ 165.76
EEL 1 - 2-Wire Digital Loop, First Line	$ 258.53
EEL 1 - 2-Wire Digital, 2nd through 24th Lines, ordered same time for same location	$ 131.09
EEL 1 - 2-Wire Digital, 2nd through 24th Lines, ordered different times	$ 178.73
EEL 1 - 4-Wire Digital Loop - First Line	$ 273.09
EEL 1 - 4-Wire Digital, 2nd through 24th Lines, ordered same time for same location	$ 144.79
EEL 1 - 4-Wire Digital, 2nd through 24th Lines, ordered different times	$ 193.29
Enhanced Extended Link; DS1 Loop, DS1 Transport	
EEL 2 - DS1 Loop, DS1 Interoffice Transport	$ 201.48
EEL 2 - DS1 Loop, DS1 Transport - Migrate	$ 82.68
Enhanced Extended Link; DS1 Loop, 3/1 Mux, DS3 Transport	
EEL 3 - DS1 Loop - First DS1, DS1/3 Multiplexing, DS3 Interoffice Transport	$ 304.32
EEL 3 - DS1 Loop - 2nd through 28th DS1's, DS1/3 Multiplexing, ordered same time for same location	$ 169.53
EEL 3 - DS1 Loop - 2nd through 28th DS1's, DS1/3 Multiplexing, ordered different times	$ 218.04
EEL 3 - DS1 Loop - Migrate DS1 to CLEC DS3	$ 82.68
Local Switching	
PBX Trunk Connection Analog	$ 86.95
PBX Trunk Connection (DS0)	$ 86.95
PBX Trunk Connection (DS1)	$ 132.45

SUMMARY

Installation Charges (continued)	NRC
Switch Features	
Custom Calling Feature Package	$ 3.25
CLASS Feature Package	$ 3.90
Centrex Feature Package	$ 24.86
Direct Connect	$ 15.73
Conference Calling 6-Way Station Control	$ 15.73
Multiline Hunt Service	$ 15.73
Dial Transfer to Tandem Tie Line	$ 74.54
Meet-Me Conference	$ 22.84
3-Way Conference/Consultation Hold/Transfer	$ 15.73
Customized Routing	
Switch Analysis	$ 86.18
Host Switch Translations	$ 1,723.60
Remote Switch Translations	$ 1,292.70
Host TOPS Translations	$ 344.72
Remote TOPS Translations	$ 172.36
Operator Services Branding	
0 + Ten Digits	$ 3,643.19
411	$ 800.00
Transport	
911 Trunk 2 Wire Analog	$ 116.44
Transport - DS1 Dedicated - Install	$ 79.80
Transport - DS1 Migrate	$ 82.68
Transport - DS3 Dedicated - Install	$ 86.28
Interoffice Transmission - STP Ports	$ 238.81
Interoffice Transmission - STP Link (56 kbps)	$ 151.02
Multiplexing - DS1-DS0	$ 71.61
Multiplexing - DS3-DS1	$ 96.36
Dark Fiber Transport - Initial Installation, 1-4 Patch Cords, per C.O.	$ 171.50

Other Charges	NRC
Other	
SS7 - Originating Point Code Service	$ 21.55
SS7 - Global Title Address Translation	$ 10.77
Nid Installation	$ 17.32
Loop Qualification - required for all Digital Loop Orders	$ 23.99
2-Wire Digital Data Loop Cooperative Testing	$ 31.02
4-Wire Digital Data Loop Cooperative Testing	$ 39.25
Trouble Isolation and Testing	$ 37.48
Trip Charge	$ 15.59
Dark Fiber End-to-End Testing, Initial Strand	$ 47.51
Dark Fiber End-to-End Testing, Subsequent Strands	$ 14.40

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Service Order Charges
Manual and Electronic

Service Order Charges

Sprint has a choice of two electronic interfaces available for receiving industry standard Local Service Requests (LSRs) from Competitive Local Providers. One is an Electronic Data Interface based application. The other is an Internet based offering.

An "Electronic" Service Order charge is available for CLEC's using either electronic interface. CLECs that elect not to use an electronic interface will be charged a "Manual" Service Order charge based on the cost of processing the manual orders. Electronic Service Order Costs are based upon estimated, forward-looking work times.

The Service Order charge applies to each order for an end-user customer at the same address. For instance, if an end-user customer orders two lines at the same home address, a single service order charge would be applied.

There are no service order charges applied for processing disconnect activity.

Service Order - Electronic	Recovers the cost of processing an LSR that is received over either of Sprint's two electronic order platforms. The labor content results from the processing of LSRs that contain CLEC errors.
Service Order - Manual	Recovers the cost of processing an LSR when the order received via fax, phone or other manual means.
Listing Only - Electronic	Recovers the cost of processing an LSR received electronically for only a directory listing if the CLEC elects not to use the standard "Batch File Transfer" to provide directory listings. The labor content results from the processing of LSRs that contain CLEC errors.
Listing Only - Manual	Recovers the cost of manually processing an LSR for only a directory listing if the CLEC elects not to use the standard "Batch File Transfer" to provide directory listings.
Change Order - Electronic	Recovers the cost of processing an LSR for a change in a feature when it is received over the electronic interface. The labor content is for resolution of CLEC errors on the order. Features are being offered as a package. However, some may be mutually exclusive. This charge would apply when a different alternate feature is requested.
Change Order - Manual	Recovers the cost of processing an LSR for a change in a feature when it is received manually. Features are being offered as a package. However, some may be mutually exclusive. This charge would apply when a different alternate feature is requested
LNP Administrative Charge	Recovers the cost of porting an existing customer to a CLEC when the customer requests service from a new service provider and desires retention of current telephone number.

Service Order Work Process Step Definitions:	
The following table defines the work process steps listed on the service order charge calculation pages:	
Process	**Description**
Validate LSR	Validate the Sprint customer's telephone number and address against information in Sprint's billing system
Correct Errors On LSR	Errors are, but not limited to: telephone number or address on LSR does not match in billing system, no circuit ID appears on LSR, block or PIN number for cross connect is incorrect, Centrex orders do not contain complete information on features desired on each line.
Retrieve Existing Reference Materials	These include S&E codes, rate tables, central office address tables.
Retrieve Other Reference Materials	Where errors have occurred, various other materials must be obtained before errors can be investigated.
Set Up Major Account for New CLEC	If the order received is from a new CLEC, a new account must be established for that CLEC.
Identify Major Account	Upon receipt of order, compare the CLEC to a listing of CLECs by related major account number.
Set Up Major Account for Existing CLEC	If the type of business being requested on an order differs from type previously ordered (eg. a business customer vs. residential customers), a new major account must be set up for the existing CLEC.
Identify Existing Sprint Customer	For customers transferring service from Sprint to a CLEC, the customer must be validated in Sprint's billing system as a current customer.
Identify Existing CLEC Customer	For customers transferring service from one CLEC to another CLEC, the customer must be validated as an existing CLEC customer.
Determine Disconnect Type	The type of disconnect determines what type of facilities, if any, are held for the end-user. Eg., if the CLEC is a reseller, all facilities are held. If the CLEC purchases loops only, only the loop is held.
Assign Telephone Number	For new service with a CLEC, a number must be assigned.
Assign Circuit ID (Loop Only)	If CLEC buys only our loop, a circuit ID must be set up for the loop.
Select S&E Codes	Service and Equipment Codes must be assigned to all orders for use in Sprint's billing system.

Service Order Work Process Step Definitions:	
The following table defines the work process steps listed on the service order charge calculation pages:	
Assign USOC's	Where USOC's are in use, assigning them to services ordered by the CLEC.
Enter Order	After all order information is complete, all orders must be entered in Sprint's Service Order system.
Investigate Working Svc Cause	Where a CLEC orders service for an end-user, and it is discovered that the end-user is already being served by a Sprint number, it must be determined whether the order is for a second line or for a transfer of service from one CLEC to another.
Update Major Accounts (New & Old CLEC)	For service transfers from one CLEC to another, the end-users service must be removed from the old CLEC's major account and added to the new CLEC's account.
Notify Prior CLEC	For service transfers from one CLEC to another, the old CLEC must be notified that the end-user is changing service.
Return FOC	After the order is entered, a firm order commitment is sent to the CLEC detailing such things as dates of installation, telephone number, and S&E codes.
Order Completed	When service has been established, a notice is sent to the CLEC.

Service Order - Manual					
Step No.	Process	Description	Time (In Minutes)	Percent of Orders Requiring	Weighted Time
1	Receive LSR	Receive LSR via paper, fax, programming sheets	0	100.00%	0.000
2	Determine if CLEC New	Identify if new CLEC	0	100.00%	0.000
3	Validate LSR	Validate telephone/address	2	100.00%	2.000
4	Correct Errors on LSR	Clarify and correct LSR	20	15.00%	3.000
5	Retrieve Existing Reference Materials	Validate materials exist	3	100.00%	3.000
6	Retrieve Other Reference Materials	Materials not readily available.	5	5.00%	0.250
7	Set-Up Major Account for New CLEC	Always required for New CLECS.	15	1.00%	0.150
8	Identify Major Account	Validate	2	100.00%	2.000
9	Set-Up Major Account for Existing CLEC	May need new type of account or existing account is full.	15	5.00%	0.750
10	Identify Existing Sprint Customer	Majority of activity is Transfer	1	80.00%	0.800
11	Identify Existing CLEC Customer	Existing CLEC end user	1	10.00%	0.100
12	Determine Disconnect Type	Corresponds with % Transfer	3	80.00%	2.400
13	Assign Telephone Number	Change Number or New Line	2	2.00%	0.040
14	Assign Circuit ID (Loop Only)	Percent Transfer that is Loop Only	2	98.00%	1.960
15	Select S&E Codes	Look up S&E codes	10	100.00%	10.000
16	Assign USOC's	USOC's Do Not Exist	2	5.00%	0.100
17	Enter Order	Order is entered/Add additional services	10	100.00%	10.000
18	Investigate Working Svc Cause	Number, etc. in use and not a Sprint customer, i.e.., customer of another CLEC.	30	10.00%	3.000
19	Update Major Accounts (New & Old CLEC)	Update and remove from old account and add to new	30	10.00%	3.000
20	Notify Prior CLEC	Send notification	2	10.00%	0.200
21	Return FOC	FOC sent	5	100.00%	5.000
22	Order Completed	Complete billing service order & notification to CLEC of completion	3	100.00%	3.000
	Total Minutes				50.750
	Conversion to Hours				0.846
	Labor Rate	NEAC Associate (Workgroup 900)			$26.65
	Charge				$22.54

Service Order - Electronic

Step No.	Process	Description	Time (In Minutes)	Percent of Orders Requiring	Weighted Time
1	Receive LSR	Receive LSR via paper, fax, programming sheets	----	----	----
2	Determine if CLEC New	Identify if new CLEC	----	----	----
3	Validate LSR	Validate telephone/address	----	----	----
4	Correct Errors on LSR	Clarify and correct LSR	20	15.00%	3.000
5	Retrieve Existing Reference Materials	Validate materials exist	----	----	----
6	Retrieve Other Reference Materials	Materials not readily available.	----	----	----
7	Set-Up Major Account for New CLEC	Always required for New CLECS.	15	1.00%	0.150
8	Identify Major Account	Validate	----	----	----
9	Set-Up Major Account for Existing CLEC	May need new type of account or existing account is full.	15	5.00%	0.750
10	Identify Existing Sprint Customer	Majority of activity is Transfer	----	----	----
11	Identify Existing CLEC Customer	Existing CLEC end user	----	----	----
12	Determine Disconnect Type	Corresponds with % Transfer	----	----	----
13	Assign Telephone Number	Change Number or New Line	----	----	----
14	Assign Circuit ID (Loop Only)	Percent Transfer that is Loop Only	----	----	----
15	Select S&E Codes	Look up S&E codes	----	----	----
16	Assign USOC's	USOC's Do Not Exist	----	----	----
17	Enter Order	Order is entered/Add additional services	----	----	----
18	Investigate Working Svc Cause	Number, etc. in use and not a Sprint customer, i.e.., customer of another CLEC.	30	10.00%	3.000
19	Update Major Accounts (New & Old CLEC)	Update and remove from old account and add to new	----	----	----
20	Notify Prior CLEC	Send notification	----	----	----
21	Return FOC	FOC sent	----	----	----
22	Order Completed	Complete billing service order & notification to CLEC of completion	----	----	----
	Total Minutes				6.900
	Conversion to Hours				0.115
	Labor Rate	NEAC Associate (Workgroup 900)			$26.65
	Charge				$3.06

Service Order - Listing Only - Manual

Step No.	Process	Description	Time (In Minutes)	Percent of Orders Requiring	Weighted Time
1	Receive LSR	Receive LSR via paper, fax, programming sheets	----	100.00%	----
2	Determine if CLEC New	Identify if new CLEC	----	100.00%	----
3	Validate LSR	Validate telephone/address	2	100.00%	2.000
4	Correct Errors on LSR	Clarify and correct LSR	15	5.00%	0.750
5	Retrieve Existing Reference Materials	Validate materials exist	3	100.00%	3.000
6	Retrieve Other Reference Materials	Materials not readily available.	2	5.00%	0.100
7	Set-Up Major Account for New CLEC	Always required for New CLECS.	15	1.00%	0.150
8	Identify Major Account	Validate	2	100.00%	2.000
9	Set-Up Major Account for Existing CLEC	May need new type of account or existing account is full.	15	5.00%	0.750
10	Identify Existing Sprint Customer	Majority of activity is Transfer	----	80.00%	----
11	Identify Existing CLEC Customer	Existing CLEC end user	----	20.00%	----
12	Determine Disconnect Type	Corresponds with % Transfer	----	80.00%	----
13	Assign Telephone Number	Change Number or New Line	----	25.00%	----
14	Assign Circuit ID (Loop Only)	Percent Transfer that is Loop Only	----	40.00%	----
15	Select S&E Codes	Look up S&E codes	----	100.00%	----
16	Assign USOC's	USOC's Do Not Exist	----	5.00%	----
17	Enter Order	Order is entered/Add additional services	10	100.00%	10.000
18	Investigate Working Svc Cause	Number, etc. in use and not a Sprint customer, i.e.., customer of another CLEC.	----	10.00%	----
19	Update Major Accounts (New & Old CLEC)	Update and remove from old account and add to new	----	10.00%	----
20	Notify Prior CLEC	Send notification	----	10.00%	----
21	Return FOC	FOC sent	5	100.00%	5.000
22	Order Completed	Complete billing service order & notification to CLEC of completion	3	100.00%	3.000
	Total Minutes				26.750
	Conversion to Hours				0.446
	Labor Rate	NEAC Associate (Workgroup 900)			$26.65
	Charge				$11.88

Service Order - Listing Only - Electronic					
Step No.	Process	Description	Time (In Minutes)	Percent of Orders Requiring	Weighted Time
1	Receive LSR	Receive LSR via paper, fax, programming sheets	----	----	----
2	Determine if CLEC New	Identify if new CLEC	----	----	----
3	Validate LSR	Validate telephone/address	----	----	----
4	Correct Errors on LSR	Clarify and correct LSR	15	5.00%	0.750
5	Retrieve Existing Reference Materials	Validate materials exist	----	----	----
6	Retrieve Other Reference Materials	Materials not readily available.	----	----	----
7	Set-Up Major Account for New CLEC	Always required for New CLECS.	----	----	----
8	Identify Major Account	Validate	----	----	----
9	Set-Up Major Account for Existing CLEC	May need new type of account or existing account is full.	----	----	----
10	Identify Existing Sprint Customer	Majority of activity is Transfer	----	----	----
11	Identify Existing CLEC Customer	Existing CLEC end user	----	----	----
12	Determine Disconnect Type	Corresponds with % Transfer	----	----	----
13	Assign Telephone Number	Change Number or New Line	----	----	----
14	Assign Circuit ID (Loop Only)	Percent Transfer that is Loop Only	----	----	----
15	Select S&E Codes	Look up S&E codes	----	----	----
16	Assign USOC's	USOC's Do Not Exist	----	----	----
17	Enter Order	Order is entered/Add additional services	----	----	----
18	Investigate Working Svc Cause	Number, etc. in use and not a Sprint customer, i.e.., customer of another CLEC.	----	----	----
19	Update Major Accounts (New & Old CLEC)	Update and remove from old account and add to new	----	----	----
20	Notify Prior CLEC	Send notification	----	----	----
21	Return FOC	FOC sent	----	----	----
22	Order Completed	Complete billing service order & notification to CLEC of completion	----	----	----
	Total Minutes				0.750
	Conversion to Hours				0.013
	Labor Rate	NEAC Associate (Workgroup 900)			$26.65
	Charge				$0.33

Service Order - Change Only - Manual

Step No.	Process	Description	Time (In Minutes)	Percent of Orders Requiring	Weighted Time
1	Receive LSR	Receive LSR via paper, fax, programming sheets	----	100.00%	----
2	Determine if CLEC New	Identify if new CLEC	----	100.00%	----
3	Validate LSR	Validate telephone/address	2	100.00%	2.000
4	Correct Errors on LSR	Clarify and correct LSR	25	5.00%	1.250
5	Retrieve Existing Reference Materials	Validate materials exist	3	100.00%	3.000
6	Retrieve Other Reference Materials	Materials not readily available.	5	10.00%	0.500
7	Set-Up Major Account for New CLEC	Always required for New CLECS.	----	5.00%	----
8	Identify Major Account	Validate	----	100.00%	----
9	Set-Up Major Account for Existing CLEC	May need new type of account or existing account is full.	----	5.00%	----
10	Identify Existing Sprint Customer	Majority of activity is Transfer	----	80.00%	----
11	Identify Existing CLEC Customer	Existing CLEC end user	----	20.00%	----
12	Determine Disconnect Type	Corresponds with % Transfer	----	80.00%	----
13	Assign Telephone Number	Change Number or New Line	----	25.00%	----
14	Assign Circuit ID (Loop Only)	Percent Transfer that is Loop Only	----	40.00%	----
15	Select S&E Codes	Look up S&E codes	5	100.00%	5.000
16	Assign USOC's	USOC's Do Not Exist	2	5.00%	0.100
17	Enter Order	Order is entered/Add additional services	5	100.00%	5.000
18	Investigate Working Svc Cause	Number, etc. in use and not a Sprint customer, i.e.., customer of another CLEC.	----	10.00%	----
19	Update Major Accounts (New & Old CLEC)	Update and remove from old account and add to new	----	10.00%	----
20	Notify Prior CLEC	Send notification	----	10.00%	----
21	Return FOC	FOC sent	5	100.00%	5.000
22	Order Completed	Complete billing service order & notification to CLEC of completion	3	100.00%	3.000
	Total Minutes				24.850
	Conversion to Hours				0.414
	Labor Rate	NEAC Associate (Workgroup 900)			$26.65
	Charge				$11.04

Service Order - Change Only - Electronic

Step No.	Process	Description	Time (In Minutes)	Percent of Orders Requiring	Weighted Time
1	Receive LSR	Receive LSR via paper, fax, programming sheets	----	----	----
2	Determine if CLEC New	Identify if new CLEC	----	----	----
3	Validate LSR	Validate telephone/address	----	----	----
4	Correct Errors on LSR	Clarify and correct LSR	15	20.00%	3.000
5	Retrieve Existing Reference Materials	Validate materials exist	----	----	----
6	Retrieve Other Reference Materials	Materials not readily available.	----	----	----
7	Set-Up Major Account for New CLEC	Always required for New CLECS.	----	----	----
8	Identify Major Account	Validate	----	----	----
9	Set-Up Major Account for Existing CLEC	May need new type of account or existing account is full.	----	----	----
10	Identify Existing Sprint Customer	Majority of activity is Transfer	----	----	----
11	Identify Existing CLEC Customer	Existing CLEC end user	----	----	----
12	Determine Disconnect Type	Corresponds with % Transfer	----	----	----
13	Assign Telephone Number	Change Number or New Line	----	----	----
14	Assign Circuit ID (Loop Only)	Percent Transfer that is Loop Only	----	----	----
15	Select S&E Codes	Look up S&E codes	----	----	----
16	Assign USOC's	USOC's Do Not Exist	----	----	----
17	Enter Order	Order is entered/Add additional services	----	----	----
18	Investigate Working Svc Cause	Number, etc. in use and not a Sprint customer, i.e.., customer of another CLEC.	----	----	----
19	Update Major Accounts (New & Old CLEC)	Update and remove from old account and add to new	----	----	----
20	Notify Prior CLEC	Send notification	----	----	----
21	Return FOC	FOC sent	----	----	----
22	Order Completed	Complete billing service order & notification to CLEC of completion	----	----	----
	Total Minutes				3.000
	Conversion to Hours				0.050
	Labor Rate	NEAC Associate (Workgroup 900)			$26.65
	Charge				$1.33

Service Order - LNP

Step No.	Process	Description	Time in Minutes	Percent of Orders Requiring	Weighted Time
1	Receive LSR	Receive LSR via paper, fax, programming sheets	0	0%	-
2	Determine if CLEC new	Identify if new CLEC	0	0%	-
3	Validate LSR	Validate telephone/address	0	0%	-
4	Correct Errors on LSR	Clarify and correct LSR	20	15%	3.000
5	Retrieve Existing Reference Materials	Validate materials exist	0	0%	-
6	Retrieve Other Reference Materials	Materials not readily available	0	0%	-
7	Set-Up Major Account for New CLEC	Always required for new CLECs.	15	1%	0.150
8	Identify Major Account	Validate	0	0%	-
9	Set-Up Major Account for Existing CLEC	May need new type of account or existing account is full	15	5%	0.750
10	Identify Existing Sprint Customer	Majority of activity is Transfer	0	0%	-
11	Identify Existing CLEC Customer	Existing CLEC end user	0	0%	-
12	Determine Disconnect Type	Corresponds with % transfer.	0	0%	-
13	Select S&E Codes	Look up S&E codes	0	0%	-
14	Assign USOC's	USOC's Do Not Exist	0	0%	-
15	Enter Order	Order is entered/Add additional services	0	0%	-
16	Conflict Resolution:	Order cannot be completed. Communication needed with CLEC, NPAP or NPAC.			
16a	First Timer	9 hours since service order received by NPAC. One service provider has not sent a service order concurring.	5	15.0%	0.750
16b	Second Timer	NPAC requests concurrence of service order. 9 more hours to respond.	0	0.0%	-
16c	Final Timer	Both timers have expired. Number can be activated by the new provider.	17.5	11.0%	1.925
16d	Cancel at NPAP	NPAP rec'd a cancel. Need to find out CLEC's status on order and if it should have been canceled.	10	53.5%	5.350
16e	Mismatch due date	Determine which order is correct. Revise other order to match.	12.5	9.8%	1.225
16f	No CLEC order	Call CLEC to verify they requested a number and why order is not written.	10	3.0%	0.300
16g	TN in conflict	Preventative measure to keep TN from being disconnected.	17.5	5.0%	0.875
16h	Manually concur	Our order has been completed, CLEC has not completed their order.	12.5	0.6%	0.075
16i	CLEC not ready	CLEC stops LNP process through assignment channels.	17.5	0.4%	0.070
16j	CLEC modify	CLEC sends revised due date, but doesn't revise their date.	10	0.8%	0.080
16k	Pending Order	Original date canceled and reissued.	10	0.9%	0.090
17	Update Major Accounts (New and Old CLEC)	Update and remove from old account and add to new	0	0%	-
18	Notify Prior CLEC	Send Notification	0	0%	-
19	Return FOC	FOC sent	0	0%	-
20	Order Completed	Complete billing service order and notification to CLEC of completion.	0	0%	-
	Total Minutes				14.640
	Conversion to Hours				0.244
	Labor Rate	NEAC Associate (Workgroup 900)			$ 26.65
	Charge				$ 6.50

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges
Analog Loops

Installation Charges - Analog Loops

Sprint has assumed a "forward-looking" network as defined by the FCC. That is, network technology that meets the dual test of being "Most Efficient" and "Currently Available". Sprint assumes NGDLC's for all DLC locations. Installation charges assume that lines for customers working through NGDLC's can be remotely migrated from the NGDLC to a separate T1 that is physically terminated in the central office.

Sprint also assumes fully automated processes for "assignment", "switch activation", "order routing" and "dispatching" of UNE orders. Although current flow-through is not 100%, Sprint has assumed no manual intervention costs for UNE orders when automatic flow-through does not occur.

Sprint has developed three "Installation Charges" for Analog loops. One for "New" installations, a second for "Second or Additional lines" and a third for "Re-installations". The "New Installation charge is applied if a field visit is required to a cross-connect box, terminal or interface. The "Second or Additional" line charge is applied if an additional line is installed at the time of a new installation. The "Re-install" charge is applied if the installation can be completed without a field visit* - such as a service migration or if the facilities have been previously left in place (CT,DCOP). These charges are based on charging the CLEC only for the "actual" work done.

There is no charge applied for "disconnect" activity, except in the case of a sub-loop when a trip must be made to the SAI to remove a jumper.

* Assumes forward-looking network and 100% NGDLC. If a trip must actually be made solely to physically re-provision a service around a DLC, it is considered to be a "Re-Installation".

Installation Charge - New	
	This charge is applied for the installation of a service where a field visit is required to connect the service at a cross-connect, terminal, or NID/Protector. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Travel to the beginning of the job. o Completion Testing o Pro-rated NGDLC remote activation o Placing and testing an MDF Jumper.
Installation Charge - Second or Additional Line	
	This charge is applied for the installation of an additional service where a field visit occurs as part of a "New" installation. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Completion Testing o Pro-rated NGDLC remote activation o Placing and testing an MDF Jumper.
Installation Charge - Re-install (CT,DCOP,Migrate)	
	This charge is applied if the installation can be completed without a field visit, such as in the case of a previous service that had been left in place as a CT or DCOP. It includes the costs of: o Placing and testing an MDF Jumper. o Completion Testing
Note:	The cost to reprogram NGDLCs is pro-rated across all installation orders based on the percentage of customers that the model projects to be working on NGDLCs .

Installation Charges - 2-Wire & 4- Wire Analog Loop

	Connect OSP	Field Completion Test	Avg Trip Time	Terminate at NID or Protector	Close Order	Install NID	MDF Jumper	CO Completion Test	Remote Provisioning (est.)	Total I&R Minutes	Total Frame Minutes	Total CO Tech Minutes	Percent Occurrence Factors	Weighted I&R Time	Weighted Frame Time	Weighted CO Tech Time	Total NRC Cost
	I&R	I&R	I&R	I&R	I&R / COT	I&R	Frame	Frame	COT								
2 Wire Analog Loops - First Line																	
Outside Plant Interconnection Cost	21	5	18	3	5	20				72	0	0	100%	72.0	0.0	0.0	$62.36
Central Office Interconnection Cost							7	2		0	9	0	100%	0.0	9.0	0.0	$6.48
Provision NGDLC (Reduce by NGDLC Factor)									8	0	0	8	71.83%	0.0	0.0	5.7	$4.14
Total														**72.0**	**9.0**	**5.7**	**$72.98**
2 Wire Analog Loops - Add'l Line																	
Outside Plant Interconnection Cost	9	4	0	2	0	0				15	0	0	100%	15.0	0.0	0.0	$12.99
Central Office Interconnection Cost							7	2		0	9	0	100%	0.0	9.0	0.0	$6.48
Provision NGDLC (Reduce by NGDLC Factor)									8	0	0	8	71.83%	0.0	0.0	5.7	$4.14
Total														**15.0**	**9.0**	**5.7**	**$23.61**
2 Wire Re-Install (CT/DCOP/Migrate)																	
Outside Plant Interconnection Cost	0	0	0	0		0				0	0	0	100%	0.0	0.0	0.0	$0.00
Central Office Interconnection Cost					5		7	2			14	0	100%	0.0	14.0	0.0	$10.08
Provision NGDLC (Reduce by NGDLC Factor)									8	0	0	8	71.83%	0.0	0.0	5.7	$4.14
Total														**0.0**	**14.0**	**5.7**	**$14.21**
4 Wire Analog Loops - First Line																	
4W Outside Plant Interconnection Cost	30	10	18	5	5	20				88	0	0	100%	88.0	0.0	0.0	$76.22
4W Central Office Interconnection Cost							14	3		0	17	0	100%	0.0	17.0	0.0	$12.24
4W Provision NGDLC (Reduce by NGDLC Factor)									11	0	0	11	71.83%	0.0	0.0	7.9	$5.69
Total														**88.0**	**17.0**	**7.9**	**$94.15**
4 Wire Analog Loops - Additional Line																	
4W Outside Plant Interconnection Cost	18	9	0	4	0	0				31	0	0	100%	31.0	0.0	0.0	$26.85
4W Central Office Interconnection Cost							14	3		0	17	0	100%	0.0	17.0	0.0	$14.72
4W Provision NGDLC (Reduce by NGDLC Factor)									11	0	0	11	71.83%	0.0	0.0	7.9	$6.84
Total														**31.0**	**17.0**	**7.9**	**$48.42**
4 Wire Re-Install (CT/DCOP/Migrate)																	
4W Outside Plant Interconnection Cost	0	0	0	0		0				0	0	0	100%	0.0	0.0	0.0	$0.00
4W Central Office Interconnection Cost					5		14	3		0	22	0	100%	0.0	22.0	0.0	$19.06
4W Provision NGDLC (Reduce by NGDLC Factor)									11	0	0	11	71.83%	0.0	0.0	7.9	$6.84
Total														**0.0**	**22.0**	**7.9**	**$25.90**

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges

Digital Loops

Installation Charges - 2W IDSN, BRI-IDSL Loop

Sprint has developed three "Installation Charges" for 2 wire Integrated Services Digital Network - Basic Rate Interface capable loops (2-64kbps B channels and 1-16kbps D channel). The non-recurring installation charges for these loops are weighted based on the percentage of loops served on copper and small and large DLC's. These charges follow the same format as analog loops with one for "New" installations, a second for "Second or Additional lines" and a third for "Re-installations". The "New" Installation charge is applied if a field visit is required to a cross-connect box, terminal or interface. The "Second or Additional" line charge is applied if an additional line is installed at the time of a new installation. The "Re-install" charge is applied if the installation can be completed without a field visit* - such as a service migration or if the facilities have been previously left in place (CT,DCOP). These charges are based on charging the CLEC only for the "actual" work done. Loop qualification charges are not included in these charges but will apply to these loops, see the "Loop Qualification Inquiry" section for these charges.

* Assumes forward-looking network and 100% NGDLC. If a trip must actually be made solely to physically re-provision a service around a DLC, it is considered to be a "Re-Installation".

Installation Charge - First or New Line	
	This charge is applied for the installation of a service where a field visit is required to connect the service at a cross-connect, terminal, or NID/Protector. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Travel to the beginning of the job. o Completion Testing o Pro-rated NGDLC remote activation o Placing and testing an MDF Jumper.
Installation Charge - Second or Additional Line	
	This charge is applied for the installation of an additional service where a field visit occurs as part of a "New" installation. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Completion Testing o Pro-rated NGDLC remote activation
Installation Charge - Re-install (CT,DCOP,Migrate)	
	This charge is applied if the installation can be completed without a field visit, such as in the case of a previous service that had been left in place as a CT or DCOP. It includes the costs of: o Placing and testing an MDF Jumper. o Completion Testing

Installation Charges - 2W ISDN, BRI - IDSL Loop

First or New Line	Minutes	Hours	Rate	NRC	% weighted
Copper Served					28%
Connect MDF Jumper	7	0.12	$ 43.19	$ 5.04	
Trip	18	0.30	$ 51.97	$ 15.59	
Install NID	20	0.33	$ 51.97	$ 17.32	
Terminate at NID or protector	3	0.05	$ 51.97	$ 2.60	
Outside Plant Interconnection	21	0.35	$ 51.97	$ 18.19	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
Total	89	1.48		$ 76.06	$ 21.43
Small-DLC Served					5%
Connect MDF Jumper	7	0.12	$ 43.19	$ 5.04	
Connect jumper DSX to fiber system	15	0.25	$ 43.19	$ 10.80	
Connect jumper between DSX and remote fiber system	15	0.25	$ 43.19	$ 10.80	
Place Plug-in Cards	2	0.03	$ 43.19	$ 1.44	
Option Plug-in cards	10	0.17	$ 43.19	$ 7.20	
Loop Qualification		-		$ -	
Trip	18	0.30	$ 51.97	$ 15.59	
Install NID	20	0.33	$ 51.97	$ 17.32	
Terminate at NID or protector	3	0.05	$ 51.97	$ 2.60	
Outside Plant Interconnection	21	0.35	$ 51.97	$ 18.19	
Circuit Engineering Provisioning	15	0.25	$ 51.97	$ 12.99	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
	146	2.43		$ 119.29	$ 5.65
Large-DLC Served					67%
Connect MDF Jumper	7	0.12	$ 43.19	$ 5.04	
Connect jumper DSX to fiber system	15	0.25	$ 43.19	$ 10.80	
Connect jumper between DSX and remote fiber system	15	0.25	$ 43.19	$ 10.80	
Place Plug-in Cards	2	0.03	$ 43.19	$ 1.44	
Option Plug-in cards	10	0.17	$ 43.19	$ 7.20	
Loop Qualification		-		$ -	
Trip	18	0.30	$ 51.97	$ 15.59	
Install NID	20	0.33	$ 51.97	$ 17.32	
Terminate at NID or protector	3	0.05	$ 51.97	$ 2.60	
Outside Plant Interconnection	21	0.35	$ 51.97	$ 18.19	
Circuit Engineering Provisioning	15	0.25	$ 51.97	$ 12.99	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
	146	2.43		119.29	$ 80.04
TOTAL NRC					$ 107.11

Comments:
*Weighted average based on percent served on copper,large and small DLCs.

Installation Charges - 2W ISDN, BRI - IDSL Loop

Additional or Second Line	Minutes	Hours	Rate	NRC	% weighted
Copper Served					28%
Connect MDF Jumper	7	0.12	$ 43.19	$ 5.04	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector	3	0.05	$ 51.97	$ 2.60	
Outside Plant Interconnection	9	0.15	$ 51.97	$ 7.80	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order		-	$ 51.97	$ -	
Total	34	0.57		$ 28.43	$ 8.01
Small-DLC Served					5%
Connect MDF Jumper	7	0.12	$ 43.19	$ 5.04	
Connect jumper DSX to fiber system	15	0.25	$ 43.19	$ 10.80	
Connect jumper between DSX and remote fiber system	15	0.25	$ 43.19	$ 10.80	
Place Plug-in Cards	2	0.03	$ 43.19	$ 1.44	
Option Plug-in cards	10	0.17	$ 43.19	$ 7.20	
Loop Qualification		-		$ -	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector	3	0.05	$ 51.97	$ 2.60	
Outside Plant Interconnection	9	0.15	$ 51.97	$ 7.80	
Circuit Engineering Provisioning	15	0.25	$ 51.97	$ 12.99	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order		-	$ 51.97	$ -	
	91	1.52		$ 71.65	$ 3.39
Large-DLC Served					67%
Connect MDF Jumper	7	0.12	$ 43.19	$ 5.04	
Connect jumper DSX to fiber system	15	0.25	$ 43.19	$ 10.80	
Connect jumper between DSX and remote fiber system	15	0.25	$ 43.19	$ 10.80	
Place Plug-in Cards	2	0.03	$ 43.19	$ 1.44	
Option Plug-in cards	10	0.17	$ 43.19	$ 7.20	
Loop Qualification		-		$ -	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector	3	0.05	$ 51.97	$ 2.60	
Outside Plant Interconnection	9	0.15	$ 51.97	$ 7.80	
Circuit Engineering Provisioning	15	0.25	$ 51.97	$ 12.99	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order		-	$ 51.97	$ -	
	91	1.52		71.65	$ 48.07
TOTAL NRC					$ 59.47

Comments:
*Weighted average based on percent served on copper,large and small DLCs.

Installation Charges - 2W ISDN, BRI - IDSL Loop

Re-install (CT,DCOP,Migrate)	Minutes	Hours	Rate	NRC	% weighted
Copper Served					28%
Connect MDF Jumper	7	0.12	$ 51.97	$ 6.06	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector		-	$ 51.97	$ -	
Outside Plant Interconnection		-	$ 51.97	$ -	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
Total	27	0.45		$ 23.39	$ 6.59
Small-DLC Served					5%
Connect MDF Jumper	7	0.12	$ 43.19	$ 5.04	
Connect jumper DSX to fiber system		-	$ 43.19	$ -	
Connect jumper between DSX and remote fiber system		-	$ 43.19	$ -	
Place Plug-in Cards		-	$ 43.19	$ -	
Option Plug-in cards		-	$ 43.19	$ -	
Loop Qualification		-		$ -	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector		-	$ 51.97	$ -	
Outside Plant Interconnection		-	$ 51.97	$ -	
Circuit Engineering Provisioning		-	$ 51.97	$ -	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
	27	0.45		$ 22.36	$ 1.06
Large-DLC Served					67%
Connect MDF Jumper	7	0.12	$ 43.19	$ 5.04	
Connect jumper DSX to fiber system		-	$ 43.19	$ -	
Connect jumper between DSX and remote fiber system		-	$ 43.19	$ -	
Place Plug-in Cards		-	$ 43.19	$ -	
Option Plug-in cards		-	$ 43.19	$ -	
Loop Qualification		-		$ -	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector		-	$ 51.97	$ -	
Outside Plant Interconnection		-	$ 51.97	$ -	
Circuit Engineering Provisioning		-	$ 51.97	$ -	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
	27	0.45		22.36	$ 15.00
TOTAL NRC					$ 22.65

Comments:
*Weighted average based on percent served on copper,large and small DLCs.

Installation Charges - 56, 64kbps, DS1, ISDN-PRI Loop

Sprint has developed three "Installation Charges" for 4 wire Integrated Services Digital Network - Primary Rate Interface capable loops (23-64kbps B channels and 1-64kbps D channel). The non-recurring installation charges for these loops are weighted based on the percentage of loops served on copper and small and large DLC's. These charges follow the same format as analog loops with one for "New" installations, a second for "Second or Additional lines" and a third for "Re-installations". The "New Installation charge is applied if a field visit is required to a cross-connect box, terminal or interface. The "Second or Additional" line charge is applied if an additional line is installed at the time of a new installation. The "Re-install" charge is applied if the installation can be completed without a field visit* - such as a service migration or if the facilities have been previously left in place (CT,DCOP). These charges are based on charging the CLEC only for the "actual" work done. Loop qualification charges are not included in these charges but will apply to these loops, see the "Loop Qualification" section for these charges.

* Assumes forward-looking network and 100% NGDLC. If a trip must actually be made solely to physically re-provision a service around a DLC, it is considered to be a "Re-Installation".

Installation Charge - First or New Line	
	This charge is applied for the installation of a service where a field visit is required to connect the service at a cross-connect, terminal, or NID/Protector. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Travel to the beginning of the job. o Completion Testing o Pro-rated NGDLC remote activation o Placing and testing an MDF Jumper.
Installation Charge - Second or Additional Line	
	This charge is applied for the installation of an additional service where a field visit occurs as part of a "New" installation. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Completion Testing o Pro-rated NGDLC remote activation
Installation Charge - Re-install (CT,DCOP,Migrate)	
	This charge is applied if the installation can be completed without a field visit, such as in the case of a previous service that had been left in place as a CT or DCOP. It includes the costs of: o Placing and testing an MDF Jumper. o Completion Testing

Installation Charges - 56, 64 kbps, DS1, ISDN-PRI Loop

First or New Line	Minutes	Hours	Rate	NRC	% weighted
Copper Served					28%
Connect MDF Jumper	14	0.23	$ 43.19	$ 10.08	
Trip	18	0.30	$ 51.97	$ 15.59	
Install NID	20	0.33	$ 51.97	$ 17.32	
Terminate at NID or protector	5	0.08	$ 51.97	$ 4.33	
Outside Plant Interconnection	30	0.50	$ 51.97	$ 25.99	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
Total	107	1.78		$ 90.63	$ 25.53
Small-DLC Served					5%
Connect MDF Jumper	14	0.23	$ 43.19	$ 10.08	
Connect jumper DSX to fiber system	15	0.25	$ 43.19	$ 10.80	
Connect jumper between DSX and remote fiber system	15	0.25	$ 43.19	$ 10.80	
Place Plug-in Cards	2	0.03	$ 43.19	$ 1.44	
Option Plug-in cards	10	0.17	$ 43.19	$ 7.20	
Loop Qualification		-		$ -	
Trip	18	0.30	$ 51.97	$ 15.59	
Install NID	20	0.33	$ 51.97	$ 17.32	
Terminate at NID or protector	5	0.08	$ 51.97	$ 4.33	
Outside Plant Interconnection	30	0.50	$ 51.97	$ 25.99	
Circuit Engineering Provisioning	15	0.25	$ 51.97	$ 12.99	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
	164	2.73		$ 133.86	$ 6.34
Large-DLC Served					67%
Connect MDF Jumper	14	0.23	$ 43.19	$ 10.08	
Connect jumper DSX to fiber system	15	0.25	$ 43.19	$ 10.80	
Connect jumper between DSX and remote fiber system	15	0.25	$ 43.19	$ 10.80	
Place Plug-in Cards	2	0.03	$ 43.19	$ 1.44	
Option Plug-in cards	10	0.17	$ 43.19	$ 7.20	
Loop Qualification		-		$ -	
Trip	18	0.30	$ 51.97	$ 15.59	
Install NID	20	0.33	$ 51.97	$ 17.32	
Terminate at NID or protector	5	0.08	$ 51.97	$ 4.33	
Outside Plant Interconnection	30	0.50	$ 51.97	$ 25.99	
Circuit Engineering Provisioning	15	0.25	$ 51.97	$ 12.99	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
	164	2.73		133.86	$ 89.81
TOTAL NRC					$ 121.68

Comments:
*Weighted average based on percent served on copper,large and small DLCs.

Installation Charges - 56, 64 kbps, DS1, ISDN-PRI Loop

Additional or Second Line Copper Served	Minutes	Hours	Rate	NRC	% weighted 28%
Connect MDF Jumper	14	0.23	$ 43.19	$ 10.08	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector	4	0.07	$ 51.97	$ 3.46	
Outside Plant Interconnection	18	0.30	$ 51.97	$ 15.59	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order		-	$ 51.97	$ -	
Total	51	0.85		$ 42.13	$ 11.87
Small-DLC Served					5%
Connect MDF Jumper	14	0.23	$ 43.19	$ 10.08	
Connect jumper DSX to fiber system	15	0.25	$ 43.19	$ 10.80	
Connect jumper between DSX and remote fiber system	15	0.25	$ 43.19	$ 10.80	
Place Plug-in Cards	2	0.03	$ 43.19	$ 1.44	
Option Plug-in cards	10	0.17	$ 43.19	$ 7.20	
Loop Qualification		-		$ -	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector	4	0.07	$ 51.97	$ 3.46	
Outside Plant Interconnection	18	0.30	$ 51.97	$ 15.59	
Circuit Engineering Provisioning	15	0.25	$ 51.97	$ 12.99	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order		-	$ 51.97	$ -	
	108	1.80		$ 85.35	$ 4.04
Large-DLC Served					67%
Connect MDF Jumper	14	0.23	$ 43.19	$ 10.08	
Connect jumper DSX to fiber system	15	0.25	$ 43.19	$ 10.80	
Connect jumper between DSX and remote fiber system	15	0.25	$ 43.19	$ 10.80	
Place Plug-in Cards	2	0.03	$ 43.19	$ 1.44	
Option Plug-in cards	10	0.17	$ 43.19	$ 7.20	
Loop Qualification		-		$ -	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector	4	0.07	$ 51.97	$ 3.46	
Outside Plant Interconnection	18	0.30	$ 51.97	$ 15.59	
Circuit Engineering Provisioning	15	0.25	$ 51.97	$ 12.99	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order		-	$ 51.97	$ -	
	108	1.80		85.35	$ 57.27
TOTAL NRC					$ 73.17

Comments:
*Weighted average based on percent served on copper,large and small DLCs.

Installation Charges - 56, 64 kbps, DS1, ISDN-PRI Loop

Re-install (CT,DCOP,Migrate)	Minutes	Hours	Rate	NRC	% weighted
Copper Served					28%
Connect MDF Jumper	14	0.23	$ 43.19	$ 10.08	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector		-	$ 51.97	$ -	
Outside Plant Interconnection		-	$ 51.97	$ -	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
Total	34	0.57		$ 27.40	$ 7.72
Small-DLC Served					5%
Connect MDF Jumper	14	0.23	$ 43.19	$ 10.08	
Connect jumper DSX to fiber system		-	$ 43.19	$ -	
Connect jumper between DSX and remote fiber system		-	$ 43.19	$ -	
Place Plug-in Cards		-	$ 43.19	$ -	
Option Plug-in cards		-	$ 43.19	$ -	
Loop Qualification		-		$ -	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector		-	$ 51.97	$ -	
Outside Plant Interconnection		-	$ 51.97	$ -	
Circuit Engineering Provisioning		-	$ 51.97	$ -	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
	34	0.57		$ 27.40	$ 1.30
Large-DLC Served					67%
Connect MDF Jumper	14	0.23	$ 43.19	$ 10.08	
Connect jumper DSX to fiber system		-	$ 43.19	$ -	
Connect jumper between DSX and remote fiber system		-	$ 43.19	$ -	
Place Plug-in Cards		-	$ 43.19	$ -	
Option Plug-in cards		-	$ 43.19	$ -	
Loop Qualification		-		$ -	
Trip		-	$ 51.97	$ -	
Install NID		-	$ 51.97	$ -	
Terminate at NID or protector		-	$ 51.97	$ -	
Outside Plant Interconnection		-	$ 51.97	$ -	
Circuit Engineering Provisioning		-	$ 51.97	$ -	
Conduct loop back analysis testing	15	0.25	$ 51.97	$ 12.99	
Close Order	5	0.08	$ 51.97	$ 4.33	
	34	0.57		27.40	$ 18.38
TOTAL NRC					$ 27.40

Comments:
*Weighted average based on percent served on copper,large and small DLCs.

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges
High Capacity Loops

Installation Charges - High Capacity Loops

	IDF/MDF Jumper	DSX-3/M13/DSX-1	DSX/D4	Repeater	Alarm	OSS	Plug In	System Provisioning	Synchronization	End-To-End Test	Translation End User	Translation Interswitch	Circuit Engineering Provisioning	Total CO Tech	Total CO Engineering	Total NRC Cost
Work Group Codes/Labor Rates	400	400	400	400	400	400	400	400	400	400	400	40	40			
DS3 Dedicated		28					2			30			60	60	60	$ 86.28
OC-3		28					2			30			60	60	60	$ 86.28
OC-12		28					2			30			60	60	60	$ 86.28

Installation Charges - High Capacity Loops

	IDF/MDF Jumper	DSX-3/M13/DSX-1	DSX/D4	Repeater	Alarm	OSS	Plug In	System Provisioning	Syncronization	End-To-End Test	Translation End User	Translation Interswitch	Circuit Engineering Provisioning	Total CO Tech	Total CO Engineering	Total NRC Cost
Work Group Codes/Labor Rates	400	400	400	400	400	400	400	400	400	400	400	40	40			
DS3 Dedicated		28					2			30			60	60	60	$ 86.28
OC-3		28					2			30			60	60	60	$ 86.28
OC-12		28					2			30			60	60	60	$ 86.28

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges

Dark Fiber Loops

Installation Charges - Dark Fiber Loop

Sprint has developed installation charges for Dark Fiber Loop which includes Central Office installation charges and OSP installation charges. Charges will vary depending upon the number of fibers leased.

The Dark Fiber Loop installation charge assumes that the leased dark fiber will be from a Sprint central office to a Sprint DLC site or from a Sprint central office to a customer premise. The CLEC must have either a collocated FPP in the Sprint central office or an appearance on Sprint's FPP at the DLC or customer premise via a fiber pigtail. Fiber pigtail's that are spliced to CLEC fiber will be installed on an ICB basis.

At the time the CLEC orders dark fiber, Sprint will perform end to end testing of the fiber strand. If the CLEC wants a Sprint technician to "stand-by" while the CLEC performs their testing, charges will be billed to the CLEC using established keep cost work order procedures.

Installation Charge - Dark Fiber Loop	
	These charges are applied for the installation of fiber patch cords to connect a Sprint fiber patch panel with a CLEC FPP at a Sprint Central Office and a DLC or customer premise located FPP. These charges will vary depending upon the number of fibers leased, but the total will be a combination of the following activities: o Travel to one Central Office. o Installing one to four patch cords at one office. o Travel to DLC or customer premise. o Installation of patch cords.

	Installation Charges - Dark Fiber Loop								
	Connect Fiber Patch Cord at 1 the DLC	Set-up, Test & Record Results	Travel	Connect Fiber Patch Cord at 1 CO	Travel	Total Cable Splicer Minutes	Percent Occurrence Factors	Weighted Cable Splicer Time	Total NRC Cost
	COT	COT	COT	Equip. Installer	Equip. Installer				
Dark Fiber Central Office Interconnection									
Central Office Interconnection Cost, 1-4 Fiber Patch Cords, per CO				180		180	100%	180.0	$155.91
Trip Cost, per CO					18	18	100%	18	$15.59
Total								**198.0**	**$171.50**
Dark Fiber Loop Interconnection									
Outside Plant Interconnection Cost, Initial or Subsequent Patch Cord	10					10	100%	10.0	$7.20
Trip Cost			18			18	100%	18	$12.96
Total								**28.0**	**$20.16**

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges

Sub-Loops

Installation Charges - Sub Loops

Sprint has developed three "Installation Charges" and one "Disconnect Charge" for Sub loops. The installation charges include one for "New" installations, a second for "Second or Additional lines" and a third for "Re-installations". The "New Installation charge is applied if a field visit is required to a cross-connect box, terminal or interface and customer premise. The "Second or Additional" line charge is applied if an additional line is installed at the time of a new installation. The "Re-install" charge is applied if the installation can be completed with only a trip to the field cross-connection site - such as in the case of service migration or if the facilities have been previously left in place (CT,DCOP). These charges are based on charging the CLEC only for the "actual" work done.

A disconnect has been developed to recover the cost of a trip made to the SAI to remove a jumper, in the event a CLEC terminates service for one of their customers. The removal of the jumper must be made to ensure service cannot be continued for future customers without Sprint's knowledge.

Installation Charge - New	
2-Wire / 4-Wire	This charge is applied for the installation of a service where a field visit is required to connect the service at a cross-connect, terminal, or NID/Protector. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Travel to the beginning of the job. o Completion Testing o Close order
Installation Charge - Second or Additional Line	
2-Wire / 4-Wire	This charge is applied for the installation of an additional service where a field visit occurs as part of a "New" installation. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Completion Testing
Installation Charge - Re-install (CT,DCOP,Migrate)	
2-Wire / 4-Wire	This charge is applied if the installation can be completed with only a field visit to the field cross-connection, such as in the case of a previous service that had been left in place as a CT or DCOP. It includes the costs of: o Travel to the cross-box o Connections at cross-boxes o Completion Testing
Disconnect Charge	
2-Wire / 4-Wire	This charge is applied if a visit is made to the field cross-connection to remove the jumper wires. This activity is necessary to ensure the facilities to the customers location are not reused without Sprint's knowledge. o Travel to the cross-box o Remove connections at cross-boxes

	Installation Charges - 2-Wire & 4 Wire Sub-Loop									
	Connect OSP	Field Completion Test	Avg. Trip Time	Terminate at NID or Protector	Close Order	Install NID	Total I&R Minutes	Percent Occurrence Factors	Weighted I&R Time	Total NRC Cost
	I&R	I&R	I&R	I&R	I&R	I&R				
2 Wire Analog Loops - First Line										
2W Outside Plant Interconnection Cost	21	5	18	3	5	20	72	100%	72.0	
Total									**72.0**	**$62.36**
2 Wire Analog Loops - Add'l Line										
2W Outside Plant Interconnection Cost	9	4	0	2	0	0	15	100%	15.0	
Total									**15.0**	**$12.99**
2 Wire Re-install (CT/DCOP/Migrate)										
2W Outside Plant Interconnection Cost	6	5	18	0	5	0	34	100%	34.0	
Total									**34.0**	**$29.45**
4 Wire Analog Loops - First Line										
4W Outside Plant Interconnection Cost	30	10	18	5	5	20	88	100%	88.0	
Total									**88.0**	**$76.22**
4 Wire Analog Loops - Addt'l Line										
4W Outside Plant Interconnection Cost	11	9	0	4	0	0	24	100%	24.0	
Total									**24.0**	**$20.79**
4 Wire Re-install (CT/DCOP/Migrate)										
4W Outside Plant Interconnection Cost	11	10	18	0	5	0	44	100%	44.0	
Total									**44.0**	**$38.11**
2 Wire Disconnect Charge										
4W Outside Plant Interconnection Cost	6		18				24	100%	24.0	
Total									**24.0**	**$20.79**
4 Wire Disconnect Charge										
4W Outside Plant Interconnection Cost	11		18				29	100%	29.0	
Total									**29.0**	**$25.12**

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges
xDSL Capable Loops

Installation Charges - xDSL Capable Loops

These installation charges are applicable to all 2 and 4-wire DSL capable loops, and Sprint has developed three "Installation Charges." One for "New" installations, a second for "Second or Additional lines" and a third for "Re-installations". The "New Installation" charge is applied if a field visit is required to a cross-connect box, terminal or interface. The "Second or Additional" line charge is applied if an additional line is installed at the time of a new installation. The "Re-install" charge is applied if the installation can be completed without a field visit - such as a service migration or if the facilities have been previously left in place (CT,DCOP). These charges are based on charging the CLEC only for the "actual" work done.

Installation Charge - New	
	This charge is applied for the installation of a service where a field visit is required to connect the service at a cross-connect, terminal, or NID/Protector. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Travel to the beginning of the job. o Completion Testing o Placing and testing an MDF Jumper.
Installation Charge - Second or Additional Line	
	This charge is applied for the installation of an additional service where a field visit occurs as part of a "New" installation. This charge includes the costs of: o Connections at cross-boxes, terminals and customer interface. o Completion Testing o Placing and testing an MDF Jumper.
Installation Charge - Re-install (CT,DCOP,Migrate)	
	This charge is applied if the installation can be completed without a field visit, such as in the case of a previous service that had been left in place as a CT or DCOP. It includes the costs of: o Placing and testing an MDF Jumper. o Completion Testing

	xDSL Capable Loop												
	Connect MDF Jumper and Test	Connect OSP	Install NID	Terminate at NID	Field Completion Test	Close Order	Travel	Total CO Tech Minutes	Total I&R Minutes	Percent Occurrence Factors	Weighted CO Tech Time	Weighted I&R Time	Total NRC Cost
	COT	I&R	I&R	I&R	I&R	I&R	I&R						
2 Wire xDSL Loop - First Line													
Central Office Interconnection Cost	9							9		100%	9.0		$6.48
Outside Plant Interconnection Cost		21	20	3	5	5	18		72	100%		72.0	$62.36
Total											**9.0**	**72.0**	**$68.84**
2 Wire xDSL Loop - Addt'l Line													
Central Office Interconnection Cost	9							9		100%	9.0		$6.48
Outside Plant Interconnection Cost		9	0	2	4				15	100%		15.0	$12.99
Total											**9.0**	**15.0**	**$19.47**
2 Wire xDSL Loop Re-Install (CT/DCOP/Migrate)													
Central Office Interconnection Cost	9					5		14		100%	14.0		$10.08
Outside Plant Interconnection Cost			0							100%		0.0	$0.00
Total											**14.0**	**0.0**	**$10.08**
4 Wire xDSL Loop - First Line													
Central Office Interconnection Cost	13							13		100%	13.0		$9.36
Outside Plant Interconnection Cost		30	20	5	10	5	18		88	100%		88.0	$76.22
Total											**13.0**	**88.0**	**$85.58**
4 Wire xDSL Loop - Addt'l Line													
Central Office Interconnection Cost	13							13		100%	13.0		$9.36
Outside Plant Interconnection Cost		18	0	5	9				32	100%		32.0	$27.72
Total											**13.0**	**32.0**	**$37.08**
4 Wire xDSL Loop Re-install (CT/DCOP/Migrate)													
Central Office Interconnection Cost	13					5		18		100%	18.0		$12.96
Outside Plant Interconnection Cost			0						0	100%		0.0	$0.00
Total											**18.0**	**0.0**	**$12.96**

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges

Loop Conditioning

Installation Charges - Loop Conditioning

This study calculates the non-recurring costs associated with Digital Subscriber Line ("DSL") Loop Conditioning.

Loop Conditioning is the process that may be used in conjunction with Loop Qualification for the provisioning of an XDSL-capable loop. After receipt of loop make-up data, it is the customer's option to request Loop Conditioning. Loop Conditioning includes the necessary work in the outside plant needed to provide a facility that will allow for transmission of high-speed digital service, such as DSL. This work may include the removal of multiple load coils, repeaters and/or bridged taps.

This study develops the one-time, non-recurring labor expense associated with conditioning an unbundled loop. Applicable when inhibiting network components are present in the loop and the customer still desires a DSL-capable loop. This rate element removes those items.

Load Coils: Load coils are placed on loop facilities when there is significant signal loss. Load coils ameliorate the loss so that the decibel signal is constant across the length of the facility. For DSL circuits, along with other types of circuits, these coils must be removed.

Bridge Taps: In many situations, a pair of wires is routed to several locations. In order to route the pairs to several locations, the cable must be "branched off" in another cable to the other location. This is called bridge tap. The increase in length caused by bridge tap can cause interference with signals such as those required for DSL and therefore, bridge tap in excess of 2,500 feet must be removed.

Repeaters: A repeater is generally used to amplify a signal over a copper loop. Without such amplification, the signal will decay over distance. The existence of a repeater will interfere with a DSL signal and therefore it must be removed.

Sprint's loop conditioning costing methodology is based upon actual costs that Sprint pays contractors to perform the work functions necessary to condition loops. This includes separate identified "work unit" costs associated with the removal of load coils, bridged tap and repeaters. For load coil removal on loops over 18,000 feet, all bridged tap and repeater removals, the costs were determined on a per location basis, dependent upon the type of outside plant facilities to be worked on. This methodology enables Sprint to recover costs that vary with the different types of plant conditions (underground-UG, Aerial-Ae, Buried-Bu) encountered when performing loop conditioning activities. For instance, it is more time-consuming to enter a manhole to perform loop conditioning activities than it is to perform the same procedures within aerial or buried outside plant (OSP) facilities. This is largely due to the fact that manhole work must be performed by a minimum of 2 technicians for safety reasons. Additionally, such UG facilities must be ventilated to be purged of potentially dangerous gases and often need to be pumped out for water. Alternatively, these time-consuming activities are not required for Ae and Bu facilities and usually only one technician is required. Sprint's

Installation Charges – Loop Conditioning, cont'd
costing methodology accounts for these labor costs differences. To avoid the potential problem with double counting engineering and travel time when multiple "conditioning activities" occur on one cable pair, Sprint calculated a separate, one time per loop charge for "Engineering" and "Travel".

Sprint pays Splicing Contractors on a "work unit" basis that entails a predetermined, negotiated contract rate for various work activities. Sprint's loop conditioning costing methodology began with the actual work units that occur in the Splice Contracts to develop the average costs per work unit activity. When there was a choice between different work units, for example, one unit to cut out a load coil in paper-insulated cable and a different charge to do the same work in plastic insulated cable, a weighted average was developed based on the frequency of occurrence. All the necessary work units were then added together for each work activity. For example, to unload a cable pair in a manhole, work units for "Underground Splice Set Up", "Remove and Replace Underground Splice Closure", and "Cut Out Load Coil" were added together to get the total labor cost. Similar calculations were performed for these splicing activities as required when working in Ae and Bu OSP facilities. This methodology enables Sprint to recover costs that are in line with the varied OSP environments that are encountered when performing loop conditioning work activities.

Sprint offers an alternate, TELRIC-based view of load coil removal for loops under 18,000 feet in length. Because cable pairs are generally loaded in groups of 25, and are not needed at all on loops less than 18,000' long, separate costs were determined based upon a more efficient load coil removal process. Sprint considers it to be reasonable to spread the fixed costs of accessing the cable pairs across all the pairs that would be unloaded in a 25 pair binder group. The incremental labor costs associated with unloading 24 more cable pairs was added to a single engineering and travel charge and then divided by 25 to determine the cost per pair for the entire binder group. This cost was then adjusted based upon the feeder fill percentage. This resulted in an adjusted cost per loop for each type of OSP environment. Sprint's costs assume that two load point locations would exist for these loops (<18kf) and are based on the frequency of occurrence of UG, Ae and Bu OSP facilities encountered at these first two load point locations. This enabled the determination of a realistic weighted average cost to deload loops shorter than 18kf. The weighted average cost was then multiplied by the percentage of loaded loops. This subtotal was then further reduced by the CLEC customer churn factor to arrive at a total NRC to be applied to each xDSL-capable loop (<18kf) service order.

The following workpaper reflects the costing methodology described above. Column "B", labeled "Source", provides an indication or notes regarding where the data was obtained or derived, for columns D through F where calculations are performed.

The costing methodology utilized by Sprint represents the "least-cost most efficient" standard established by the FCC.

Installation Charges - Loop Conditioning

RESULTS

LOAD COIL REMOVAL for Loops SHORTER Than 18,000 feet

Load Coil Removal - via 25 Pair Economies

The following charge applies to all xDSL-capable loop orders that are under 18,000 feet in length. This NRC includes costs for load coil labor removal, engineering and travel charges based upon a 25 pair economy.

NRC per each xDSL-capable loop order	**$ 1.44**

LOAD COIL REMOVAL for Loops 18,000 feet or LONGER

The following single Engineering and Travel charges apply to each xDSL-capable loop order that requires any quantity or combination of load coil, repeater and.or bridge tap removal.

Engineering Charge	**$ 28.03**
Travel Charge	**$ 15.59**

The following charges apply to each load coil location for loops that are 18,000 feet or longer.

Costs per Location	Underground	Aerial	Buried
Remove Load Coil	**$ 397.39**	**$ 6.96**	**$ 6.96**
Remove additional Load Coil at same time, location and cable	**$ 3.06**	**$ 1.61**	**$ 1.61**

BRIDGE TAP and REPEATER REMOVAL

The following single Engineering and Travel charges apply to each xDSL-capable loop order that requires any quantity or combination of load coil, repeater and.or bridge tap removal.

Engineering Charge	**$ 28.03**
Travel Charge	**$ 15.59**

The following charges apply per loop for each Bridge Tap and/or Repeater location.

Costs per Location	Underground	Aerial	Buried
Remove Bridge Tap	**$ 394.78**	**$ 5.74**	**$ 5.74**
Remove additional Bridge Tap at same time, location and cable	**$ 0.45**	**$ 0.39**	**$ 0.39**
Remove Repeater	**$ 394.78**	**$ 5.74**	**$ 5.74**
Remove additional Repeater at same time, location and cable	**$ 0.45**	**$ 0.39**	**$ 0.39**

Installation Charges - Loop Conditioning

Load Coil Removal - via 25 Pair Economies

A	B	C	D	E	F
1		**NRC Calculation for Loops Shorter Than 18,000 Feet**			
2					
3	**Source**		**Quantity**	**Unit Cost**	**Total**
4					
5	p2-D5	**Remove Load in Underground Cable**	1	$ 397.39	$ 397.39
6	p3-F24	Addt'l Work Time work time for unloading 24 more pairs	24	$ 3.06	$ 73.52
7	Gardner + As-Blt	Engineering Charge	0.75	$ 37.37	$ 28.03
8	CSO Study	Travel Charge	18	$ 51.97	$ 15.59
9	sum: F5-F8	Total Cost to remove 25 loads - Ug			$ 514.53
10	F9 / 25 prs	Cost per Pair		$ 20.58	
11	BCPM loop input	Utilization Factor Adjustment	56.1%		
12	E10 / D11	**Adjusted Cost per Loop, per Ug location**			$ 36.72
13					
14					
15					
16	p2-E5	**Remove Load in Aerial Cable**	1	$ 6.96	$ 6.96
17	p3-F28	Addt'l Work Time work time for unloading 24 more pairs	24	$ 1.61	$ 38.58
18	Gardner + As-Blt	Engineering Charge	0.75	$ 37.37	$ 28.03
19	CSO Study	Travel Charge	18	$ 51.97	$ 15.59
20	sum: F16-F19	Total Cost to remove 25 loads - Ae			$ 89.16
21	F20 / 25 prs	Cost per Pair		$ 3.57	
22	BCPM loop input	Utilization Factor Adjustment	56.1%		
23	E21 / D22	**Adjusted Cost per Loop, per Ae location**			$ 6.36
24					
25					
26					
27	p2-F5	**Remove Load in Buried Cable**	1	$ 6.96	$ 6.96
28	p3-F28	Addt'l Work Time work time for unloading 24 more pairs	24	$ 1.61	$ 38.58
29	Gardner + As-Blt	Engineering Charge	0.75	$ 37.37	$ 28.03
30	CSO Study	Travel Charge	18	$ 51.97	$ 15.59
31	sum: F27-F30	Total Cost to remove 25 loads - Bu			$ 89.16
32	F31 / 25 prs	Cost per Pair		$ 3.57	
33	BCPM loop input	Utilization Factor Adjustment	56.1%		
34	E32 / D33	**Adjusted Cost per Loop, per Bu location**			$ 6.36
35					
36					

37					
38		**Calculations to Spread Load Coil Removal NRC Across All xDSL-Capable Loop Orders**			
39					
40				**Unit**	
41			**Frequency**	**Cost**	**Total**
42		**Load Point #1**			
43	EWO data * F13	Remove Load in Ug Cable	59.2%	$36.72	$21.75
44	EWO data * F24	Remove Load in Ae Cable	2.9%	$6.36	$0.19
45	EWO data * F35	Remove Load in Bu Cable	37.9%	$6.36	$2.41
46					
47		**Load Point #2**			
48	EWO data * F13	Remove Load in Ug Cable	51.6%	$36.72	$18.95
49	EWO data * F24	Remove Load in Ae Cable	4.7%	$6.36	$0.30
50	EWO data * F35	Remove Load in Bu Cable	43.7%	$6.36	$2.78
51					
52	sum: F43-F50	**SubTotal - weighted average cost to deload loop**			**$46.37**
53					
54	MapViewer Spa Qry	Multiply times percentage of loaded loops	3.2%		
55					
56	F52 * F54	**SubTotal - per loaded loop NRC**		$ 1.48	
57					
58	# Svc Ord - Growth	Reduce by CLEC customer churn factor	2.8%		
59	Total # UNE Loops				
60					
61	E56 - (E56 * D58)	**Total NRC per each xDSL loop order < 18 Kf**			$ 1.44

Installation Charges - Loop Conditioning

Loop Conditioning - Costs Per Location

A	B	C	D	E	F
1	Source		Underground	Aerial	Buried
2		**Unload Cable Pair - Loops >18Kf**			
3	p3 - F40, 45, 50	Access the Pair	$ 394.33	$ 5.35	$ 5.35
4	p3 - F24, 28	Unload One Pair	$ 3.06	$ 1.61	$ 1.61
5		**Total**	**$ 397.39**	**$ 6.96**	**$ 6.96**
6					
7		**Cost to Remove One Bridged Tap**			
8	p3 - F40, 45, 50	Access the Pair	$ 394.33	$ 5.35	$ 5.35
9	p3 - F16, 20	Remove the Bridged Tap on One Pair	$ 0.45	$ 0.39	$ 0.39
10		**Total**	**$ 394.78**	**$ 5.74**	**$ 5.74**
11					
12		**Cost per Location to Remove Repeater**			
13	p3 - F40, 45, 50	Access the Pair	$ 394.33	$ 5.35	$ 5.35
14	p3 - F16, 20	Remove Repeater on One Pair	$ 0.45	$ 0.39	$ 0.39
15		**Total**	**$ 394.78**	**$ 5.74**	**$ 5.74**
16					
17					
18		**Miscellaneous Charges**			
19					
20		**One per loop conditioned:**	**Minutes**	**Rate**	**Charge**
21					
22	30+15	**Engineering Charge**	45	$ 37.37	**$ 28.03**
23	CSO Staff	**Travel Charge**	18	$ 51.97	**$ 15.59**

Installation Charges - Loop Conditioning

Loop Conditioning - Average Weighted Costs

A	B	C	D	E	F
1		**Calculate Average Activity Cost**			
2			Avg		
3	Work		Contract		Weighted
4	Unit	Work Unit Description	Cost	Frequency	Cost
5					
6	618012	Remove & Replace Ug Sealed Closure < 6 1/2"	$ 31.61	17.7%	$ 5.60
7	618014	Remove & Replace Ug Sealed Closure > 6 1/2"	$ 57.03	82.3%	$ 46.93
8		**Remove & Replace Ug Sealed Closure**		100.0%	$ 52.53
9					
10	618013	Remove & Replace Bu/Ae Sealed Closure < 6 1/2"	$ 21.16	70.3%	$ 14.88
11	618015	Remove & Replace Bu/Ae Sealed Closure > 6 1/2"	$ 39.97	29.7%	$ 11.86
12		**Remove and Replace Ae/Bu Sealed Closure**		100.0%	$ 26.74
13					
14	618041	Cut Out Bridge Ug Paper Insulated	$ 0.45	35.2%	$ 0.16
15	618042	Cut Out Bridge Ug PIC	$ 0.45	64.8%	$ 0.29
16		**Cut Out Ug Bridged Tap**		100.0%	$ 0.45
17					
18	618043	Cut Out Bridge Bu/Ae Paper Insulated	$ 0.42	7.9%	$ 0.03
19	618044	Cut Out Bridge Bu/Ae PIC	$ 0.39	92.1%	$ 0.36
20		**Cut Out Bu/Ae Bridged Tap**		100.0%	$ 0.39
21					
22	618080	Cut in/Out Load Coil Ug Paper Insulated	$ 3.41	79.4%	$ 2.71
23	618081	Cut in/Out Load Coil Ug PIC	$ 1.73	20.6%	$ 0.36
24		**Unload Ug Cable Pair**		100.0%	$ 3.06
25					
26	618082	Cut in/Out Load Coil Bu/Ae Paper Insulated	$ 3.00	12.6%	$ 0.38
27	618083	Cut in/Out Load Coil Bu/Ae PIC	$ 1.41	87.4%	$ 1.23
28		**Unload Bu/Ae Cable Pair**		100.0%	$ 1.61
29					
30	618099	**Underground Splice Set-up**	$ 101.80	100%	$ 101.80
31					

32					
33		**Composite Work Time Calculation**			
34					
35	Source		Cost	Frequency	Total Cost
36		**Access Pairs in Underground Cable**			
37	p3 - F30	Underground Splice Set up	$ 101.80	100%	$ 101.80
38	p3 - F8	Remove & Replace Underground Sealed Closure	$ 52.53	100%	$ 52.53
39	CSO Staff	Traffic Control	$ 300.00	80%	$ 240.00
40		**Cost to Access Pair in Underground Cable**			$ 394.33
41					
42		**Access Pairs in Aerial Cable**			
43	p3 - F12	Remove & Replace Aerial Sealed Closure	$ 26.74	20.0%	$ 5.35
44	CSO Staff	Remove Ready Access Closure	$0.00	80.0%	$0.00
45		**Cost to Access Pair in Aerial Cable**			$ 5.35
46					
47		**Access Pairs in Buried Cable**			
48	p3 - F12	Remove & Replace Buried Sealed Closure	$ 26.74	20.0%	$ 5.35
49	CSO Staff	Remove Ready Access Closure	$0.00	80.0%	$0.00
50		**Cost to Access Pair in Buried Cable**			$ 5.35

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges
UNE-Platform Combinations
Enhanced Extended Link

Installation Charges - UNE-P and Enhanced Extended Links (EEL)'s

Sprint has developed installation charges for 3 variations of UNE-P 2 wire loop and switch combinations and several variations of enhanced extended loops. All of these non-recurring charges represent combinations of previously calculated individual NRC's. For that reason, work times and activities are not shown with the UNE-P NRC combination components and should be referenced in the appropriate element section. Total NRC charges for these various combinations are shown on the NRC Summary page.

UNE-P Installation Charge - First Line, Loop and Port	
2-Wire	This charge is applied for the installation of a service where a field visit is required to connect the service at a cross-connect, terminal, or NID/Protector. This charge includes the costs of: o 2-Wire Analog Loop installation non-recurring charge. o 100% Flow Through automated systems is assumed. No Installation NRC is applied when ordering a Port.
UNE-P Installation Charge - Second or Additional Loop and Port	
2-Wire	This charge is applied for the installation of an additional service where a field visit occurs as part of a "New" installation. This charge includes the costs of: o 2-Wire Analog Loop Addt'l Line non-recurring charge. o 100% Flow Through automated systems is assumed. No Installation NRC is applied when ordering a Port.
UNE-P Installation Charge - Migrate Loop and Port	
2-Wire	This charge is applied if the installation can be completed without a field visit, such as in the case of a previous service that had been left in place as a CT or DCOP. It includes the costs of: o 2-Wire Analog Loop Re-install (migrate) non-recurring charge. o 100% Flow Through automated systems is assumed. No Installation NRC is applied when ordering a Port.

EEL 1 - DS0 Loop, DS0/1 Multiplexing, DS1 Transport	
2-Wire/4-wire - First line	This charge is applied for the installation of a service where a field visit is required to connect the service at a cross-connect, terminal, or NID/Protector. This charge includes the costs of: o 2-Wire or 4-Wire first line non-recurring installation charge. o DS0/1 Multiplexing non-recurring installation charge. o DS1 Transport non-recurring installation charge.
EEL 1 - DS0 Loop, DS0/1 Multiplexing, DS1 Transport	
2-Wire/4-wire - 2nd through 24th Lines, ordered same time for same location,	This charge is applied for the installation of an additional service where a field visit occurs as part of a "New" installation. This charge includes the costs of: o 2-Wire or 4-Wire 2nd line non-recurring installation charge. o DS0/1 Multiplexing non-recurring installation charge. o Shared DS1 Transport (no incremental cost).
EEL 1 - DS0 Loop , DS0/1 Multiplexing, DS1 Transport	
2-Wire/4-wire - - 2nd through 24th Lines, ordered different times	This charge is applied for the installation of an additional service where a field visit occurs as part of a an installation not worked at the same time or location as the initial order. This charge includes the costs of: o 2-Wire or 4-Wire first line non-recurring installation charge. o DS0/1 Multiplexing non-recurring installation charge. o Shared DS1 Transport (no incremental cost).

Installation Charges - UNE-P and Enhanced Extended Links (EEL)'s

EEL 2 - DS1 Loop, DS1 Interoffice Transport	
DS1 - new	This charge is applied for the installation of a service where a field visit is required to connect the service at a cross-connect, terminal, or NID/Protector. This charge includes the costs of: o DS1 Loop first line non-recurring installation charge. o DS1 Interoffice Transport non-recurring installation charge.
EEL 2 - DS1 Loop, DS1 Interoffice Transport	
DS1 - migrate	This charge is applied if the installation can be completed without a field visit, such as in the case of a previous service that had been left in place as a CT or DCOP. It includes the costs of: o DS1 Loop migrate non-recurring installation charge. o DS1 Transport migrate non-recurring installation charge.

EEL 3 - DS1 Loop, DS1/3 Multiplexing, DS3 Transport	
1st DS1, muxing and 1st DS3	This charge is applied for the installation of a service where a field visit is required to connect the service at a cross-connect, terminal, or NID/Protector. This charge includes the costs of: o DS1 First Line non-recurring installation charge. o DS1/3 Multiplexing non-recurring installation charge. o DS3 Transport non-recurring installation charge.
EEL 3 - DS1 Loop, DS1/3 Multiplexing, DS3 Transport	
DS1's #2-28 ordered same time for same location	This charge is applied for the installation of an additional service where a field visit occurs as part of a "New" installation. This charge includes the costs of: o DS1 Addt'l Line non-recurring installation charge. o DS1/3 Multiplexing non-recurring installation charge. o Shared DS3 Transport (no incremental cost).
EEL 3 - DS1 Loop, DS1/3 Multiplexing, DS3 Transport	
DS1's #2-28 ordered different times	This charge is applied for the installation of an additional service where a field visit occurs as part of a an installation not worked at the same time or location as the initial order. This charge includes the costs of: o DS1 Addt'l Line non-recurring installation charge. o DS1/3 Multiplexing non-recurring installation charge. o Shared DS3 Transport (no incremental cost).
EEL 3 - DS1 Loop, DS1/3 Multiplexing, DS3 Transport	
Migrate DS1 Transport to CLEC DS3 Transport	This charge assumes the CLEC has already paid for the installation of an EEL3 combination of DS1 Loop, DS1/3 Multiplexing and DS3 Transport, and that the CLEC wants to migrate a different DS1 Transport to their own DS3 Transport. This charge includes the costs of: o DS1 Transport Migrate non-recurring installation charge. o Shared DS3 Transport (no incremental cost).

Installation Charges - UNE-P Combinations and EEL1, EEL2, EEL3		
Note: The total of these NRC's are a combination of previously calculated non-recurring costs. The appropriate loop NRC must be added with the other components for the total NRC cost.		
UNE-P: Loop, Switching, Common Transport		
Loop		
2-Wire New - First Line	$	72.98
2-Wire New - Addt'l Line	$	23.61
2-Wire Migrate	$	14.21
Switching		0
EEL 1: Loop, 1/0 Multiplexing, DS1 Transport		
Loop		
2-Wire Analog - First Line	$	72.98
2-Wire Analog - 2nd through 24th Lines, ordered same time for same location	$	23.61
2-Wire Analog - 2nd through 24th Lines, ordered different times	$	72.98
4-Wire Analog - First Line	$	94.15
4-Wire Analog - 2nd through 24th Lines, ordered same time for same location	$	48.42
4-Wire Analog - 2nd through 24th Lines, ordered different times	$	94.15
2-Wire Digital Loop, First Line	$	107.11
2-Wire Digital, 2nd through 24th Lines, ordered same time for same location	$	59.47
2-Wire Digital, 2nd through 24th Lines, ordered different times	$	107.11
4-Wire Digital Loop - First Line	$	121.68
4-Wire Digital, 2nd through 24th Lines, ordered same time for same location	$	73.17
4-Wire Digital, 2nd through 24th Lines, ordered different times	$	121.68
DS0/DS1 Multiplexing	$	71.61
DS1 Interoffice Transport	$	79.80
EEL 2: DS1 Loop, DS1 Interoffice Transport		
DS1 Loop - First Line	$	121.68
DS1 Interoffice Transport	$	79.80
DS1 Loop, DS1 Transport - Migrate	$	82.68
EEL 3: DS1 Loop, 3/1 Multiplexing, DS3 Transport		
DS1 Loop - First Line	$	121.68
DS1 Loop - 2nd through 28th DS1s ordered same time for same location	$	73.17
DS1 Loop - 2nd through 28th DS1s ordered different times	$	121.68
DS1 Loop - Migrate DS1 Transport to CLEC DS3	$	82.68
DS1/DS3 Multiplexing	$	96.36
DS3 Interoffice Transport	$	86.28

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges
Local Switching

Installation Charges - Local Switching, PBX Trunk Connection

Sprint has developed three different non-recurring charges for PBX Trunks. These charges include the installation activities and work times to install three types of PBX trunks including: Analog, DS0, and DS1. This NRC is a combination of the appropriate loop installation charge as well as additional time for a Translation Engineer to add the trunk group to the switch's translation tables.

Analog PBX Trunk	This charge is applied to install a 4-Wire Analog PBX Trunk. This charges includes: o 4-Wire Analog loop NRC. o *Fifteen minute time allowance for a Translations Engineer* to access the appropriate central office switch software and add the trunk group to the translation tables.
DS0 PBX Trunk	This charge is applied to install a 4-Wire DS0 PBX Trunk. This charges includes: o 4-Wire DS0 loop NRC. o Fifteen minute time allowance for a Translations Engineer to access the appropriate central office switch software and add the trunk group to the translation tables.
DS1 PBX Trunk	*This charge is applied to install a 4-Wire DS1 PBX Trunk. This charges* includes: o 4-Wire DS1 loop NRC. o Fifteen minute time allowance for a Translations Engineer to access the appropriate central office switch software and add the trunk group to the translation tables.

Installation Charges - Local Switching, PBX Trunk Connection

	MDF Jumper	CO Completion Test	Connect OSP	Field Completion Test	Avg. Trip Time	Terminate at NID or Protector	Close Order	Translation Engineer	Total Frame Minutes	Total I&R Minutes	Total Translation Eng. Minutes	Percent Occurrence Factors	Weighted Frame Time	Weighted I&R Time	Weighted Translation Eng. Minutes	Total NRC Cost
	Frame	Frame	I&R	I&R	I&R	I&R	I&R	Eng.								
Analog PBX Trunk																
Central Office Interconnection Cost	14	10							24	0	0	100%	24	0	0	$17.28
Outside Plant Interconnection Cost			30	10	18	5	5		0	68	0	100%	0	68	0	$58.90
Translation Engineer								15	0	0	15	100%	0	0	15	$10.77
Total													24	68	15	**$86.95**
DS0 PBX Trunk																
Central Office Interconnection Cost	14	10							24	0	0	100%	24	0	0	$17.28
Outside Plant Interconnection Cost			30	10	18	5	5		0	68	0	100%	0	68	0	$58.90
Translation Engineer								15	0	0	15	100%	0	0	15	$10.77
Total													24	68	15	**$86.95**

DS1 PBX Trunk	
DSI Loop NRC	$ 121.68
Translation Engineer @ 15 Minutes	$ 10.77
Total	$ 132.45

$121.68
$10.77
$132.45

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges
Switch Features

Installation Charges - Switch Features	
Port Installation	100% Flow Through automated systems is assumed. No Installation NRC is applied when ordering a Port.
Standard CCF Package	A standard package of features is offered with each port sold. No Installation NRC is applied for features when the port is initially ordered. The package may contain features that are mutually exclusive. Should a change be requested after the initial installation, a change order charge would be applied.
Standard CLASS Package	A standard package of CLASS features is offered with each port sold. No Installation NRC is applied for features when the port is initially ordered. The package may contain features that are mutually exclusive. Should a change be requested after the initial installation, a change order charge would be applied.
Centrex Feature Package	Sprint offers a group of the most frequently used Centrex features as a package. This NRC recovers the cost of provisioning that feature package. This NRC is in addition to the NRC for the port and/or loop.
Centrex: 3-Way Conference / Consultation / Hold / Transfer	
Centrex: Conference Calling 6-Way Station Controlled	
Centrex: Dial Transfer to Tandem Line	Recovers the cost to program individual Centrex Features that are not a part of the Sprint Centrex package. These features are typically high in labor content to program and may require customer specific information to be input.
Centrex: Direct Connect - Automatic Line	
Centrex: Meet-Me Conference	

Switch Features

Custom Calling Features

Feature Description	NRC Per Feature	Total Minutes	NRC Rate	
Call Waiting	$ 0.45	1.13	$ 0.45	First Feature
Three-Way Calling	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Speed Calling 2 Digits	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Signalring/Teen Service	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Warm Line	$ -	0.00	$ -	1 minutes each additional feature
Call Hold	$ -	0.00	$ -	1 minutes each additional feature
Enhanced Call Waiting	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Call Forwarding Variable	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Call Forward Don't Answer	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Call Forward Busy	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Total CCF Package			**$ 3.25**	

CLASS Features

Feature Description	NRC Per Feature	Total Minutes	NRC Rate	
Automatic Callback*	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Automatic Recall*	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Calling Name & Number Delivery	$ 0.90	2.26	$ 0.90	First Feature
CND Blocking	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Distinctive Ring	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Select Call Rejection	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Anonym. Call Rej.	$ 0.45	1.13	$ 0.40	1 minutes each additional feature
Class Stat Mess Wait Dis	$ -	1.13	$ -	1 minutes each additional feature
Total CLASS Feature Package			**$ 3.90**	

Centrex Features

Feature Description	NRC Per Feature	Total Minutes	NRC Rate	
Automatic Callback	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Basic Business Group	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Basic Business Set	$ 15.73	22.41	$ 15.73	First Feature
Call Forwarding Busy Line	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Call Forwarding Don't Answer	$ 15.73	22.41	$ -	
Call Forwarding Variable	$ 15.73	22.41	$ -	
Call Park	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Call Pick-up	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Call Waiting Terminating	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Directed Call Pick-up w/Barge-in	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Directed Call Pick-up w/o Barge-in	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Group Intercom	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Last Number Redial	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Permanent Hold	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Speed Calling 2 Digits - Control Line	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Speed Calling Individual - 1 Digit	$ 15.73	22.41	$ -	
Speed Calling Individual - 2 Digits	$ 15.73	22.41	$ -	
Toll Restricted Service	$ 15.73	22.41	$ 0.70	1 minutes each additional feature
Total Centrex Package			**$ 24.86**	

Individual Features

Feature Description	NRC Per Feature	Total Minutes	NRC Rate	
Direct Connect	$ 15.73	22.41	$ 15.73	Per Feature
Conference Calling 6-Way Station Control	$ 15.73	22.41	$ 15.73	Per Feature
Multiline Hunt Service	$ 15.73	22.41	$ 15.73	Per Feature
Dial Transfer to Tandem Tie Line	$ 74.54	104.30	$ 74.54	Per Feature
Meet-Me Conference	$ 22.84	32.30	$ 22.84	Per Feature
3-Way Conference/Consultation Hold/Transfer	$ 15.73	22.41	$ 15.73	Per Feature

Florida Centrex - NRC Rates Feature Name	SCIS/IN Number	SCIS Designation		NTX Package	SCC Technician #400 Minutes	SCC Technician #400 Labor Hours	SCC Technician #400 Labor Rate	SCC Technician #400 Total Labor $	Business Customer Rep #900 Minutes	Business Customer Rep #900 Labor Hours	Business Customer Rep #900 Labor Rate	Business Customer Rep #900 Total Labor $
Basic Business Set	200	bus set		NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
3-Way Conference/Consultation Hold/Xfer	39	bus grp	stat	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Automatic Line	335	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Automatic Route Selection	110	Pri Fac.		NTX105AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Automatic Answer Back	331	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Automatic Callback	99	bus group	class		8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Automatic Dial	332	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Automatic Recall	10	res bus	class		8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
BG Speed Calling - 2 Digits - Control Line	50	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
BG Speed Calling 2-Shared	368	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Business Group Automatic Callback	312	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Business Set as a Message Center	219	bus set		NTX822AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Business Set Call Forward All Calls	382	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Business Set Feature Display	347	bus set		NTX108AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Business Set Group Intercom all Calls	239	bus set		NTX878AC	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Business Set Intercom	123	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Call Forwarding Busy Line	27	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Call Forwarding Don't Answer All Calls	29	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Call Forwarding Variable - BBG	24	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Call Park	327	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Call Pick-Up	61	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Call Waiting Terminating	35	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Cancel Call Waiting	38	bus grp	station	NTX824AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Changeable Speed Calling - 1 Digit	3	res/bus	res/bus	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Changeable Speed Calling - 2 Digits	4	res/bus	res/bus	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Code Restriction and Diversion	322	bus grp	group		8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Conference Calling 6-Way Station Contr.	66	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Customer Originated Trace	133	bus grp	class		8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Delay Ann. Dedicated - Music On Hold	98	bus grp	group	NTX101AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Dial Transfer to Tandem Tie Line	292	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00

Florida Centrex - NRC Rates Feature Name	SCIS/IN Number	SCIS Designation		NTX Package	Central Plant Office - Wiring #400 Minutes	Labor Hours	Labor Rate	Total Labor $	Digital Processing Clerk #900 Minutes	Labor Hours	Labor Rate	Total Labor $
Basic Business Set	200	bus set		NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
3-Way Conference/Consultation Hold/Xfer	39	bus grp	stat	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Automatic Line	335	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Automatic Route Selection	110	Pri Fac.		NTX105AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Automatic Answer Back	331	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Automatic Callback	99	bus group	class		5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Automatic Dial	332	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Automatic Recall	10	res bus	class		5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
BG Speed Calling - 2 Digits - Control Line	50	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
BG Speed Calling 2-Shared	368	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Business Group Automatic Callback	312	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Business Set as a Message Center	219	bus set		NTX822AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Business Set Call Forward All Calls	382	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Business Set Feature Display	347	bus set		NTX108AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Business Set Group Intercom all Calls	239	bus set		NTX878AC	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Business Set Intercom	123	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Call Forwarding Busy Line	27	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Call Forwarding Don't Answer All Calls	29	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Call Forwarding Variable - BBG	24	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Call Park	327	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Call Pick-Up	61	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Call Waiting Terminating	35	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Cancel Call Waiting	38	bus grp	station	NTX824AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Changeable Speed Calling - 1 Digit	3	res/bus	res/bus	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Changeable Speed Calling - 2 Digits	4	res/bus	res/bus	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Code Restriction and Diversion	322	bus grp	group		5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Conference Calling 6-Way Station Contr.	66	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Customer Originated Trace	133	bus grp	class		5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Delay Ann. Dedicated - Music On Hold	98	bus grp	group	NTX101AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Dial Transfer to Tandem Tie Line	292	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48

Florida Centrex - NRC Rates Feature Name	SCIS/IN Number	SCIS Designation		NTX Package	Engineering - Central Office Minutes	Engineering - Central Office Labor Hours	Engineering - Central Office #040 Labor Rate	Engineering - Central Office Total Labor $	Total NRC Charge $	Total Minutes
Basic Business Set	200	bus set		NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
3-Way Conference/Consultation Hold/Xfer	39	bus grp	stat	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Automatic Line	335	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Automatic Route Selection	110	Pri Fac.		NTX105AA	240.00	4.00	43.09	172.36	182.27	254.30
Automatic Answer Back	331	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Automatic Callback	99	bus group	class		8.11	0.14	43.09	5.82	15.73	22.41
Automatic Dial	332	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Automatic Recall	10	res bus	class		8.11	0.14	43.09	5.82	15.73	22.41
BG Speed Calling - 2 Digits - Control Line	50	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
BG Speed Calling 2-Shared	368	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Business Group Automatic Callback	312	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Business Set as a Message Center	219	bus set		NTX822AA	8.11	0.14	43.09	5.82	15.73	22.41
Business Set Call Forward All Calls	382	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Business Set Feature Display	347	bus set		NTX108AA	8.11	0.14	43.09	5.82	15.73	22.41
Business Set Group Intercom all Calls	239	bus set		NTX878AC	8.11	0.14	43.09	5.82	15.73	22.41
Business Set Intercom	123	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Call Forwarding Busy Line	27	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Call Forwarding Don't Answer All Calls	29	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Call Forwarding Variable - BBG	24	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Call Park	327	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Call Pick-Up	61	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Call Waiting Terminating	35	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Cancel Call Waiting	38	bus grp	station	NTX824AA	8.11	0.14	43.09	5.82	15.73	22.41
Changeable Speed Calling - 1 Digit	3	res/bus	res/bus	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Changeable Speed Calling - 2 Digits	4	res/bus	res/bus	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Code Restriction and Diversion	322	bus grp	group		20.00	0.33	43.09	14.36	24.27	34.30
Conference Calling 6-Way Station Contr.	66	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Customer Originated Trace	133	bus grp	class		8.11	0.14	43.09	5.82	15.73	22.41
Delay Ann. Dedicated - Music On Hold	98	bus grp	group	NTX101AA	120.00	2.00	43.09	86.18	96.09	134.30
Dial Transfer to Tandem Tie Line	292	bus grp	station	NTX100AA	90.00	1.50	43.09	64.64	74.54	104.30

Florida Centrex - NRC Rates Feature Name	SCIS/IN Number	SCIS Designation		NTX Package	SCC Technician #400 Minutes	SCC Technician #400 Labor Hours	SCC Technician #400 Labor Rate	SCC Technician #400 Total Labor $	Business Customer Rep #900 Minutes	Business Customer Rep #900 Labor Hours	Business Customer Rep #900 Labor Rate	Business Customer Rep #900 Total Labor $
Direct Connect - Automatic Line	53	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Directed Call Park	340	bus grp	station	NTX414AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Directed Call Pick-Up w/Barge-In	62	bus grp	group	NTX435AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Directed Call Pick-Up w/oBarge-In	63	bus grp	group	NTX435AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Distinctive Ringing Enhancements	231	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Extension Sets	456	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Group Intercom	208	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Indiv Page from Group Intercom	357	bus set		NTX878AB	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Last Number Redial	329	bus grp	station	NTX101AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
MADN Ring Forward	349	bus set		NTX108AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Make Set Busy Except Group Intercom	477	bus set		NTX878AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Meet-Me Conference	325	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Message Waiting Indication Lamp	393	Misc	mes srs	NTX119AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Msg. Waiting Indic. - Stutter Dial Tone	130	Misc	mes srs	NTX119AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Multi Appearance Directory Number Calls	212	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Multiline Hunt Service	90	bus grp	mhg	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Permanent Hold	326	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Privacy Release	209	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Query Busy Station	491	bus set		NTX719AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Remote Activation of Call Forwarding	32	bus grp	station	NTXA43AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Repeated Alert for Meridian Bus Set	236	bus set		NTX878AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Secondary MADN Call Forwarding	472	bus set		NTXA72AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Short Hunt on Business Set	470	bus set		NTX106AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Speed Calling Individual - 1 Digit	47	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Speed Calling Individual - 2 Digits	48	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Speed Calling-1 Digit	398	res/bus	res/bus	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Speed Calling-2 Digits	399	res/bus	res/bus	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Stat Mess Wait Bus Set Lamp - Call Request	404	misc	mes srs	NTX119AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Toll Restricted Service	60	bus grp	station	NTX100AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00
Uniform Call Distribution	94	bus grp	mhg	NTX101AA	8.10	0.14	43.19	5.83	0.00	0.00	23.96	0.00

Business Customer Reps - Minutes are for the first feature. Each additional feature is 1 minutes.

Florida Centrex - NRC Rates Feature Name	SCIS/IN Number	SCIS Designation		NTX Package	Central Plant Office - Wiring #400 Minutes	Labor Hours	Labor Rate	Total Labor $	Digital Processing Clerk #900 Minutes	Labor Hours	Labor Rate	Total Labor $
Direct Connect - Automatic Line	53	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Directed Call Park	340	bus grp	station	NTX414AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Directed Call Pick-Up w/Barge-In	62	bus grp	group	NTX435AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Directed Call Pick-Up w/oBarge-In	63	bus grp	group	NTX435AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Distinctive Ringing Enhancements	231	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Extension Sets	456	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Group Intercom	208	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Indiv Page from Group Intercom	357	bus set		NTX878AB	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Last Number Redial	329	bus grp	station	NTX101AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
MADN Ring Forward	349	bus set		NTX108AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Make Set Busy Except Group Intercom	477	bus set		NTX878AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Meet-Me Conference	325	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Message Waiting Indication Lamp	393	Misc	mes srs	NTX119AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Msg. Waiting Indic. - Stutter Dial Tone	130	Misc	mes srs	NTX119AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Multi Appearance Directory Number Calls	212	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Multiline Hunt Service	90	bus grp	mhg	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Permanent Hold	326	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Privacy Release	209	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Query Busy Station	491	bus set		NTX719AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Remote Activation of Call Forwarding	32	bus grp	station	NTXA43AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Repeated Alert for Meridian Bus Set	236	bus set		NTX878AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Secondary MADN Call Forwarding	472	bus set		NTXA72AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Short Hunt on Business Set	470	bus set		NTX106AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Speed Calling Individual - 1 Digit	47	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Speed Calling Individual - 2 Digits	48	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Speed Calling-1 Digit	398	res/bus	res/bus	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Speed Calling-2 Digits	399	res/bus	res/bus	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Stat Mess Wait Bus Set Lamp - Call Request	404	misc	mes srs	NTX119AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Toll Restricted Service	60	bus grp	station	NTX100AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48
Uniform Call Distribution	94	bus grp	mhg	NTX101AA	5.00	0.08	43.19	3.60	1.20	0.02	23.96	0.48

Business Customer Reps - Minutes are for the first feature. Each additional feature is 1 minutes.

Florida Centrex - NRC Rates Feature Name	SCIS/IN Number	SCIS Designation		NTX Package	Engineering - Central Office Minutes	Labor Hours	#040 Labor Rate	Total Labor $	Total NRC Charge $	Total Minutes
Direct Connect - Automatic Line	53	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Directed Call Park	340	bus grp	station	NTX414AA	8.11	0.14	43.09	5.82	15.73	22.41
Directed Call Pick-Up w/Barge-In	62	bus grp	group	NTX435AA	8.11	0.14	43.09	5.82	15.73	22.41
Directed Call Pick-Up w/oBarge-In	63	bus grp	group	NTX435AA	8.11	0.14	43.09	5.82	15.73	22.41
Distinctive Ringing Enhancements	231	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Extension Sets	456	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Group Intercom	208	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Indiv Page from Group Intercom	357	bus set		NTX878AB	8.11	0.14	43.09	5.82	15.73	22.41
Last Number Redial	329	bus grp	station	NTX101AA	8.11	0.14	43.09	5.82	15.73	22.41
MADN Ring Forward	349	bus set		NTX108AA	8.11	0.14	43.09	5.82	15.73	22.41
Make Set Busy Except Group Intercom	477	bus set		NTX878AA	8.11	0.14	43.09	5.82	15.73	22.41
Meet-Me Conference	325	bus grp	station	NTX100AA	18.00	0.30	43.09	12.93	22.84	32.30
Message Waiting Indication Lamp	393	Misc	mes srs	NTX119AA	8.11	0.14	43.09	5.82	15.73	22.41
Msg. Waiting Indic. - Stutter Dial Tone	130	Misc	mes srs	NTX119AA	8.11	0.14	43.09	5.82	15.73	22.41
Multi Appearance Directory Number Calls	212	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Multiline Hunt Service	90	bus grp	mhg	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Permanent Hold	326	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Privacy Release	209	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Query Busy Station	491	bus set		NTX719AA	8.11	0.14	43.09	5.82	15.73	22.41
Remote Activation of Call Forwarding	32	bus grp	station	NTXA43AA	8.11	0.14	43.09	5.82	15.73	22.41
Repeated Alert for Meridian Bus Set	236	bus set		NTX878AA	8.11	0.14	43.09	5.82	15.73	22.41
Secondary MADN Call Forwarding	472	bus set		NTXA72AA	8.11	0.14	43.09	5.82	15.73	22.41
Short Hunt on Business Set	470	bus set		NTX106AA	8.11	0.14	43.09	5.82	15.73	22.41
Speed Calling Individual - 1 Digit	47	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Speed Calling Individual - 2 Digits	48	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Speed Calling-1 Digit	398	res/bus	res/bus	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Speed Calling-2 Digits	399	res/bus	res/bus	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Stat Mess Wait Bus Set Lamp - Call Request	404	misc	mes srs	NTX119AA	8.11	0.14	43.09	5.82	15.73	22.41
Toll Restricted Service	60	bus grp	station	NTX100AA	8.11	0.14	43.09	5.82	15.73	22.41
Uniform Call Distribution	94	bus grp	mhg	NTX101AA	30.00	0.50	43.09	21.55	31.45	44.30

Business Customer Reps - Minutes are for the first feature. Each additional feature is 1 minutes.

Florida Class Services - NRC Rates Feature Name		SCIS/IN Number Res/Bus	SCIS Designation	NTX Package				SCC Technician #400 Minutes	Labor Hours	Labor Rate	Total Labor $	Business Customer Rep #950 Minutes	Labor Hours	Labor Rate	Total Labor $
Return Call	*Automatic Recall*	*10 bus*	*class*	*ntxp80aa*				*0.00*	*0.00*	*43.19*	*0.00*	*0.00*	*0.00*	*23.96*	*0.00*
Repeat Dialing	Automatic Callback	9 bus	class					0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Call Tracing us		18 bus	class	ntxa02aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Selective Call Ringing		13						0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Selective Call Rejection		15 bus	class	ntxa96aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Anonymous Caller Rejection		147 bus	class	ntxp12aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Caller ID		11 bus	class	ntxa01aa	ntxe27aa	ntxp73aa	ntxe38ab	0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Calling Name/Number Delivery Blocking		12 bus	class	ntxa41aa	ntxe46aa	ntxq29aa		0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Call Tracing Denial								0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Caller ID with Name		19 bus	class	ntxe52aa	ntxr95aa			0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Call Waiting Display	Call Waiting ID	785		ntxn97ab				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Call Waiting Options	TR Compliant Call Waiting	990		ntxq91ab				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Visual Message Waiting Indicator		393		ntx119aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Auto Recall Blocking				ntxnull	na-002			0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
CLASS Message Waiting	CLASS Visual Message Waiting Indicato	402		ntxj39aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Customer Originated Trace		128						0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
To put on Centrex Lines software package ntxf56aa															
Custom Calling Features															
Call Forwarding Variable		2 res	bus	ntx100aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Call Forwarding Don't Answer		507 res	bus	ntx100aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Call Forwarding Busy		508 res	bus	ntx100aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Three Way Calling		1 res	bus	ntx100aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Call Waiting		5 res	bus	ntx100aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Enhanced Call Waiting	Distinctive Call Waiting Ringback	344 res	bus	ntxa32aa	ntx807ab			0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Speed Calling 2 digits		4 res	bus	ntx100aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Call Forwarding with Remote Activation	Remote Activation of Call Forwarding	6 res	bus	ntxa43aa				*0.00*	*0.00*	*43.19*	*0.00*	*0.00*	*0.00*	*23.96*	*0.00*
Signalring	Teen Service	309 res	bus	ntx219aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Remote Call Forwarding		33 res	bus	ntx021aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Call Hold		314 res	bus	ntxj69aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Warm Line		310 res	bus	ntx127aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Enhance Call Forwarding	(no cost differentiation from feature 2)	2		ntx806aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Enhanced Three Way Calling	(no cost differentiation from feature 1)	1		ntx808aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
ISDN-BRI															
Basic Rate Interface		144						30.00	0.50	43.19	21.60	0.00	0.00	23.96	0.00
Single Line ISDN-Voice	(feature 144 is inherent in 569)	569						30.00	0.50	43.19	21.60	0.00	0.00	23.96	0.00
Single Line ISDN-Circuit Switched Data		772						30.00	0.50	43.19	21.60	0.00	0.00	23.96	0.00
ISDN-PRI		191													
D Channel Back-up		922						30.00	0.50	43.19	21.60	0.00	0.00	23.96	0.00

Florida Class Services - NRC Rates Feature Name		SCIS/IN Number Res/Bus	SCIS	Designation	NTX Package				Central Plant Office - Wiring #400 Minutes	Labor Hours	Labor Rate	Total Labor $	Digital Processing Clerk #950 Minutes	Labor Hours	Labor Rate	Total Labor $
Return Call	Automatic Recall	10 bus		class	ntxp80aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Repeat Dialing	Automatic Callback	9 bus		class					0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Call Tracing us		18 bus		class	ntxa02aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Selective Call Ringing		13							0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Selective Call Rejection		15 bus		class	ntxa96aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Anonymous Caller Rejection		147 bus		class	ntxp12aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Caller ID		11 bus		class	ntxa01aa	ntxe27aa	ntxp73aa	ntxe38ab	0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Calling Name/Number Delivery Blocking		12 bus		class	ntxa41aa	ntxe46aa	ntxq29aa		0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Call Tracing Denial									0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Caller ID with Name		19 bus		class	ntxe52aa	ntxr95aa			0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Call Waiting Display	Call Waiting ID	785			ntxn97ab				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Call Waiting Options	TR Complianr Call Waiting	990			ntxq91ab				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Visual Message Waiting Indicator		393			ntx119aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Auto Recall Blocking					ntxnull	na-002			0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
CLASS Message Waiting	CLASS Visual Message Waiting Indicato	402			ntxj39aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Customer Originated Trace		128							0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
To put on Centrex Lines software package ntxf56aa																
Custom Calling Features																
Call Forwarding Variable		2 res		bus	ntx100aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Call Forwarding Don't Answer		507 res		bus	ntx100aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Call Forwarding Busy		508 res		bus	ntx100aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Three Way Calling		1 res		bus	ntx100aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Call Waiting		5 res		bus	ntx100aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Enhanced Call Waiting	Distinctive Call Waiting Ringback	344 res		bus	ntxa32aa	ntx807ab			0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Speed Calling 2 digits		4 res		bus	ntx100aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Call Forwarding with Remote Activation	Remote Activation of Call Forwarding	6 res		bus	ntxa43aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Signalring	Teen Service	309 res		bus	ntx219aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Remote Call Forwarding		33 res		bus	ntx021aa				0.00	0.00	43.19	0.00	1.13	0.02	23.96	0.45
Call Hold		314 res		bus	ntxj69aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Warm Line		310 res		bus	ntx127aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Enhance Call Forwarding	(no cost differentiation from feature 2)	2			ntx806aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
Enhanced Three Way Calling	(no cost differentiation from feature 1)	1			ntx808aa				0.00	0.00	43.19	0.00	0.00	0.00	23.96	0.00
ISDN-BRI																
Basic Rate Interface		144							5.00	0.08	43.19	3.60	0.00	0.00	23.96	0.00
Single Line ISDN-Voice	(feature 144 is inherent in 569)	569							5.00	0.08	43.19	3.60	0.00	0.00	23.96	0.00
Single Line ISDN-Circuit Switched Data		772							5.00	0.08	43.19	3.60	0.00	0.00	23.96	0.00
ISDN-PRI		191														
D Channel Back-up		922							15.00	0.25	43.19	10.80	0.00	0.00	23.96	0.00

Florida Class Services - NRC Rates Feature Name		SCIS/IN Number Res/Bus	SCIS Designation	NTX Package				Engineering - Central Office Minutes	Labor Hours	#040 Labor Rate	Total Labor $	Total NRC Charge $	Total Minutes
Return Call	Automatic Recall	10 bus	class	ntxp80aa				0.00	0.00	43.09	0.00	0.45	1.13
Repeat Dialing	Automatic Callback	9 bus	class					0.00	0.00	43.09	0.00	0.45	1.13
Call Tracing us		18 bus	class	ntxa02aa				0.00	0.00	43.09	0.00	0.45	1.13
Selective Call Ringing		13						0.00	0.00	43.09	0.00	0.45	1.13
Selective Call Rejection		15 bus	class	ntxa96aa				0.00	0.00	43.09	0.00	0.45	1.13
Anonymous Caller Rejection		147 bus	class	ntxp12aa				0.00	0.00	43.09	0.00	0.45	1.13
Caller ID		11 bus	class	ntxa01aa	ntxe27aa	ntxp73aa	ntxe38ab	0.00	0.00	43.09	0.00	0.45	1.13
Calling Name/Number Delivery Blocking		12 bus	class	ntxa41aa	ntxe46aa	ntxq29aa		0.00	0.00	43.09	0.00	0.45	1.13
Call Tracing Denial								0.00	0.00	43.09	0.00	0.45	1.13
Caller ID with Name		19 bus	class	ntxe52aa	ntxr95aa			0.00	0.00	43.09	0.00	0.45	1.13
Call Waiting Display	Call Waiting ID	785		ntxn97ab				0.00	0.00	43.09	0.00	0.45	1.13
Call Waiting Options	TR Compliant Call Waiting	990		ntxq91ab				0.00	0.00	43.09	0.00	0.45	1.13
Visual Message Waiting Indicator		393		ntx119aa				0.00	0.00	43.09	0.00	0.00	0.00
Auto Recall Blocking				ntxnull	na-002			0.00	0.00	43.09	0.00	0.45	1.13
CLASS Message Waiting	CLASS Visual Message Waiting Indicato	402		ntxj39aa				0.00	0.00	43.09	0.00	0.00	0.00
Customer Originated Trace		128						0.00	0.00	43.09	0.00	0.45	1.13
To put on Centrex Lines software package ntxd56aa													
Custom Calling Features													
Call Forwarding Variable		2 res	bus	ntx100aa				0.00	0.00	43.09	0.00	0.45	1.13
Call Forwarding Don't Answer		507 res	bus	ntx100aa				0.00	0.00	43.09	0.00	0.45	1.13
Call Forwarding Busy		508 res	bus	ntx100aa				0.00	0.00	43.09	0.00	0.45	1.13
Three Way Calling		1 res	bus	ntx100aa				0.00	0.00	43.09	0.00	0.45	1.13
Call Waiting		5 res	bus	ntx100aa				0.00	0.00	43.09	0.00	0.45	1.13
Enhanced Call Waiting	Distinctive Call Waiting Ringback	344 res	bus	ntxa32aa	ntx807ab			0.00	0.00	43.09	0.00	0.45	1.13
Speed Calling 2 digits		4 res	bus	ntx100aa				0.00	0.00	43.09	0.00	0.45	1.13
Call Forwarding with Remote Activation	Remote Activation of Call Forwarding	6 res	bus	ntxa43aa				0.00	0.00	43.09	0.00	0.45	1.13
Signalring	Teen Service	309 res	bus	ntx219aa				0.00	0.00	43.09	0.00	0.45	1.13
Remote Call Forwarding		33 res	bus	ntx021aa				0.00	0.00	43.09	0.00	0.45	1.13
Call Hold		314 res	bus	ntxj69aa				0.00	0.00	43.09	0.00	0.00	0.00
Warm Line		310 res	bus	ntx127aa				0.00	0.00	43.09	0.00	0.00	0.00
Enhance Call Forwarding	(no cost differentiation from feature 2)	2		ntx806aa				0.00	0.00	43.09	0.00	0.00	0.00
Enhanced Three Way Calling	(no cost differentiation from feature 1)	1		ntx808aa				0.00	0.00	43.09	0.00	0.00	0.00
ISDN-BRI													
Basic Rate Interface		144						0.00	0.00	43.09	0.00	25.19	35.00
Single Line ISDN-Voice	(feature 144 is inherent in 569)	569						0.00	0.00	43.09	0.00	25.19	35.00
Single Line ISDN-Circuit Switched Data		772						0.00	0.00	43.09	0.00	25.19	35.00
ISDN-PRI		191											
D Channel Back-up		922						60.00	1.00	43.09	43.09	75.48	105.00

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges
Customized Routing

CUSTOMIZED ROUTING

A. Purpose

The purpose of the cost study is to determine the non-recurring charges associated with developing customized routing at a CLEC's request.

B. General Description

Customized routing permits requesting carriers to designate the particular outgoing trunks that will carry certain classes of traffic originating from the competing provider's customers. This permits the carrier to self-provide, or select among other providers of interoffice facilities, operator services and directory assistance. Customized routing is generally technically feasible, but varies from switch to switch based on capacity constraints.

C. Service Description - Customized Routing – OA/DA

Customized Routing is the routing of originating traffic for Operator Assistance and Directory Assistance (OA/DA) to a CLEC or ILEC designated OA/DA provider or to Sprint OAIDA. Activation of the service requires specialized translations to be installed in the host switch and in some instances the remote switch to direct OA/DA originating traffic from the switch to a dedicated outgoing trunk designated by the applicant.

The request for custom routing is received through Account Management and is initiated through a Bona-Fide Request (BFR). The CLEC/ILEC will need to provide in the BFR the specific services requested by end office switch location where activation is required. The Sprint translations engineer will then analyze the switches to determine if capacity exists to fulfill the request. If there is not ample capacity to install the translations, the applicant will be notified, and is liable for the switch analysis charge. If capacity exists, the analysis charge applies and the carrier will have within 30 days to request the translations be placed in the switch. If during that 30 day period another carrier requests set up of custom routing translations, a subsequent analysis and charge may apply to the original applicant.

D. Non-recurring Charges

1). *Switch Analysis Charge* - A switch analysis procedure to determine OA/DA branding capacity in a switch has been developed by Sprint engineering. This procedure takes two hours per switch to complete by a translations engineer. The applicant is responsible for these charges whether capacity does or does not exist in the analyzed switch(es). This charge will also apply to remote switches should the applicant request a different dialing plan in the remote than exists in the host switch.

2). *Host Switch Translations Charge* - The translation engineer will install translations into the host switch that will direct OA/DA originating traffic from the switch to a dedicated trunk designated by the applicant. Custom routing translations require forty (40) hours installation time in each host switch, the subtending remotes will have the same dialing plan as the host switch.

3). *Remote Switch Translations Charge* - The translation engineer will install translations into the remote switch if separate dialing plans are required from those in the host switch. These translations require thirty (30) hours installation time in the remote switch.

4). TOPS (Toll Operator Position System) Host Translations Charge - The translation engineer will install TOPS translations for the host should the applicant request OA/DA service from Sprint. These translations require eight hours installation time into TOPS.

5). TOPS (Toll Operator Position System) Remote Translations Charge - The translation engineer will install TOPS translations for each remote should the applicant request OA/DA service from Sprint. These translations require one (1) hour installation time intoTOPS and are required only if the dialing plan differs from the host TOPS dialing plan.

E. Major Cost Areas and Sources

The analysis and translations are set up by a field translations engineer, with the cost being made up of the following areas:

- Direct Labor and Supervisory Costs
- Labor and Benefits

This loaded labor rate is specific to SPRINT – Florida, Incorporated

F. Cost Development Methodology

The TELRIC cost development for Customized Routing Switch Analysis and Switch Translations is developed by first identifying the work hours for each of the five (5) Non-recurring elements. The work time for each element is then multiplied by the hourly loaded labor rate for field translations engineers. The hourly loaded labor rate is comprised of the engineer's salary, benefits and supervision.

Installation Charges - Customized Routing			
Cost Element	**Work Function**	**Work Hours**	**NRC**
Switch Analysis	Translation Engineer	2.0	$ 86.18
Host Switch Translations	Translation Engineer	40.0	$ 1,723.60
Remote Switch Translations	Translation Engineer	30.0	$ 1,292.70
Host TOPS Translations	Translation Engineer	8.0	$ 344.72
Remote TOPS Translations	Translation Engineer	4.0	$ 172.36

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges

Operator Services Branding

Installation Charges - Operator Services Branding

0+	Customer dials 0+ ten digits - applies to credit card, collect and 3rd number billed calls. Fully automated no operator intervention required. Can brand calls at three points - front end, point of billing and back end. One time Nortel charge to make recording of $ 3,600 plus one hour to install @ $ 43.19 $3,643.19 This charges applies per each Service Providers I. D. (SPID) Available after Nortel Application Vehicle (NAV) is installed in 8/2000.
DA & NDA (411)	Branding on DA & NDA calls. Front end branding is made before recording requesting city and state is played to the caller and at the end of the call. One time charge of $800.00 as follows: Studio $ 85 Recording Talent $ 500 Convert to wave file $ 75 Tapes $ 80 CD ROMs $ 60 $ 800 **Note**: If both front and back end branding are requested at the same time, the NRC is $800. If requested at separate times, the charge would be $800 each.
0-	No automated branding available at this time. If branding is required, it would have to be manual and based on a cost per call. No costs have been developed for this.

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Installation Charges

Transport

Installation Charges - Transport	
911 2-Wire Analog Trunk	Recovers the cost of provisioning and testing a 911 trunk.
Transport DS1 Dedicated	Recovers the cost of provisioning and testing a DS1 transmission path.
Transport DS1 Migrate	Recovers the cost of migrating an existing Sprint DS1 transmission path to a CLEC.
Transport DS3 Dedicated	Recovers the cost of provisioning and testing a DS3 transmission path.
IO Transmission STP	Recovers the cost of provisioning and testing an STP port.
IO Transmission STP Links	Recovers the cost of establishing a signaling path between a customer designated point of signaling
Multiplexing DS1/DS0	Recovers the cost of provisioning multiplexing between DS1 and DS0 transmission levels.
Multiplexing DS3/DS1	Recovers the cost of provisioning multiplexing between DS3 and DS1 transmission levels.

Installation Charges - Transport, 1/0 and 3/1 Multiplexing

	IDF/MDF Jumper	DSX-3/M13/DSX-1	DSX/D4	Repeater	Alarm	OSS	Plug In	System Provisioning	Synchronization	End-To-End Test	Translation End User	Translation Interswitch	Circuit Engineering Provisioning	Total CO Tech	Total CO Engineering	Total NRC Cost
Work Group Codes/Labor Rates	400	400	400	400	400	400	400	400	400	400	400	40	40			
911 Trunk																
911 Trunk 2 Wire Analog						5	2	5		30	15	45	60	57	105	$ 116.44
TRANSPORT																
DS1 Dedicated		14		5			2			30			60	51	60	$ 79.80
DS1 Migrated		25								30			60	55	60	$ 82.68
DS3 Dedicated		28					2			30			60	60	60	$ 86.28
INTEROFFICE TRANSMISSION																
STP Ports					30	5	2	10	120	60		45	60	227	105	$ 238.81
STP Link (56 kbps)							2	5	88	25			90	120	90	$ 151.02
MULTIPLEXING																
DS1-DS0	7		1				2			30			60	40	60	$ 71.61
DS3-DS1		42					2			30			60	74	60	$ 96.36

Installation Charges - Dark Fiber Transport

The Dark Fiber Transport installation charge is based upon a "per" office charge, assuming the transport route will be between two or more Sprint central offices, and the CLEC has a FPP interconnection (POI) in each end office. Fiber patch cords will join the Sprint FPP to the CLEC FPP in each location. The installation charge includes running from one to four patch cords of up to 50 meters each in length, simultaneously.

At the time the CLEC orders dark fiber, Sprint will perform end to end testing of the fiber strand. If the CLEC wants a Sprint technician to "stand-by" while the CLEC performs their testing, charges will be billed to the CLEC using established keep cost work order procedures.

Installation Charge - Central Office Interconnection	
	This charge is applied for the installation of fiber patch cords to connect a Sprint fiber patch panel with a CLEC fiber patch panel, in one central office location. This charge includes the costs of: o Installing one to four patch cords at one office. o Travel to one Central Office.

	Installation Charges - Dark Fiber Transport								
	Connect Fiber Patch Cord at 1 the DLC	Set-up, Test & Record Results	Travel	Connect Fiber Patch Cord at 1 CO	Travel	Total Cable Splicer Minutes	Percent Occurrence Factors	Weighted Cable Splicer Time	Total NRC Cost
	COT	COT	COT	Equip. Installer	Equip. Installer				
Dark Fiber Transport									
Central Office Interconnection Cost, 1-4 Fiber Patch Cords, per CO				180		180	100%	180.0	$155.91
Trip Cost, per CO					18	18	100%	18	$15.59
Total								**198.0**	**$171.50**

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Other Charges

SS7

NID

Digital Pre-Order Loop Qualification Inquiry

Cooperative Testing

Trouble Isolation and Testing

Trip

Dark Fiber End-to-End Test

Other Charges	
Originating Point Code Service	Originating Point Codes (OPC) are generated to allow Sprint's SS7 network to identify the originating point of a call, and is a manual process that requires routing information to be input into a terminal as part of the Table Maintenance Process. This non-recurring charge is per each OPC Service request.
Global Title Address Translation	Global Title Translations (GTT) charges apply for each service or application (excluding LIDB access service and TFC database service) that utilizes Transaction Capabilities Application Part (TCAP) messages. These charges also apply for each service (excluding LIDB access service and TFC database service) added or changed subsequent to the initial establishment of STP access. The service provides translations to the network for routing purposes, and is a part of the manual process that requires information to be input into a terminal as part of the Table Maintenance Process. This non-recurring charge is per each GTT Service request.
Nid Installation	Recover the cost of installing the Network Interface Device at the customer premises and bonding the NID to the power company ground rod.
Digital Loop Pre-Order Qualification Inquiry	Recovers cost associated with preparing loop make-up and researching electrical parameters.
Cooperative Testing	Recovers costs to test digital data loops in conjunction with CLEC personnel.
Trouble Isolation and Testing	Recovers the cost of trouble isolation when a CLEC reports trouble on an UNE and the cause is found to be outside of Sprint's network. This would include trouble in the Customer Premise Wiring or in the CLEC's Network. This charge is applied when a dispatch is required to isolate the trouble.
Trip Charge	Recovers the individual cost of an I&R trip to a customers premises.
Dark Fiber End-to-End Testing	Recovers the cost of end-to-end testing of leased dark fiber. Charges were developed to reflect the cost of testing an initial strand and subsequent strands as necessary, per location.

Other Charges - SS7			
	Translation & Facilities Engineering	Total Minutes	Total NRC Cost
Originating Point Code, per entry	30	30	$ 21.55
Global Title Address Translation, per entry	15	15	$ 10.77

Other Charges - Trip and NID				
	Average Trip Time	Install NID	Minutes Converted to Hours	Total NRC Cost
	I&R	I&R		
Trip Charge	18		0.30	**$15.59**
Nid Installation		20	0.33	**$17.32**

Installation Charges - Digital Pre-Order Loop Qualification Inquiry	
In response to the FCC's Third Report and Order to unbundle the OSS, Sprint has developed an efficient interim process to provide CLEC's with loop makeup and electrical parameter data. This data will enable the CLEC to determine the type(s) of service(s) they can sell on specific loops.	
Pre-Order Loop Inquiry	
	The following activities are included in the pre-order loop inquiry process and cost: o Service order generation o Loop make-up research. o Electrical parameter research. o Information is electronically routed to the CLEC.

Installation Charges - Digital Pre-Order Loop Qualification Inquiry

Pre-Order Loop Inquiry Process - Total

Department	*Cost per Order*
NEAC	$10.66
Field Team	$13.33
Total	**$23.99**

Pre-Order Loop Inquiry Process - NEAC

(A) Step #	(B) Step Description	(C) Position Title	(D) Time Estimate (Minutes)	(E) Loaded Labor Rate	(F) (D)/60*(E) Cost	(G) Probability	(F)*(G) Weighted Cost
Order Faxed							
1	Faxed order is date and time stamped. Send back receipt confirmation to CLEC.	NEAC Analyst	5	$26.65	$2.22		
2	Key into Carrier Access Tracking System (CATS).	NEAC Analyst	5	$26.65	$2.22		
3	The request is validated.	NEAC Analyst	5	$26.65	$2.22		
4	Service order is generated in the Service Order Entry (SOE) system.	NEAC Analyst	15	$26.65	$6.66		
			30		$13.33	40.00%	$5.33
Order Sent through IRES							
1	The request is validated.	NEAC Analyst	5	$26.65	$2.22		
2	Service order is generated in the Service Order Entry (SOE) system.	NEAC Analyst	15	$26.65	$6.66		
			20		$8.88	60.00%	$5.33
							$10.66
*	Probability based on mix of how CLEC orders are received today.						

Installation Charges - Digital Pre-Order Loop Qualification Inquiry

Pre-Order Loop Inquiry Process - Field Team

(A)	(B)	(C)	(D)	(E)	(F) (D)/60*(E)	(G)	(H) (F)*(G)
Step #	**Step Description**	**Position Title**	**Time Estimate (Minutes)**	**Probability***	**Weighted Time Estimate (Hours)**	**Loaded Labor Rate**	**Cost**
1	Order is pulled from the printer.	Facility Coordinator	1	100.00%	0.0167	$30.07	$0.50
2	Terminal and cable pair are researched. Mapviewer is accessed. Cable IPID is identified for the loop. Loop makeup is accessed in Mapviewer and loop makeup is run.	Facility Coordinator	22	100.00%	0.3667	$30.07	$11.03
3	Loop makeup information is added to the remark section of the service order. Service order is ended.	Facility Coordinator	2	100.00%	0.0333	$30.07	$1.00
4	Electrical Parameters are researched and added to the remark section of the service order.	Facility Coordinator	5	32.05%	0.0267	$30.07	$0.80
							$13.33

Installation Charges - Digital Pre-Order Loop Qualification Inquiry

Supporting Calculation for NRC Development

Electrical Parameter Data Availability Calculation

	(millions)	
(A)	7.8	Total access lines (source: Station Data Report - yearend 1999)
(B)	5.9	Estimated lines with test equipment (source: Customer Service Organization)
(C)=(82%*B)	4.8	Estimated lines which can currently be accessed (1)
(D)	2.3	Estimated lines for which Sprint may not be able to provide accurate electrical parameters (source: Station Data Report - yearend 1999)
(E)=(C)-(D)	2.5	Estimated lines for which accurate electrical parameter data is available (2)
(F)=(E)/(A)	**32.05%**	**Probability of availability of Electrical Parameter data.**

Notes: (1) Estimate from Customer Service Organization.
(2) Current technology only allows extraction of electrical parameters on B1 lines only. Multiline business lines have been deducted from this calculation.

Sprint Local Telephone Companies	**Dec-99**	**Subtotal Bus. Lines other than B1**	**Millions**
Residential - Primary	4,930,639		
Residential - Non Primary	753,656		
Residential - Primary w/o Lifeline	4,869,113		
Single Line Business	262991		
MultiLine Business	1,335,595		
ISDN - BRI	20,212		
ISDN - PRI (* 5)	36,940		
Centrex	453,100		
Centrex > 9 Lines	360,879		
Centrex < 9 Lines	92,222		
Centrex < 9 Line Users	29,113	2,328,061	2.3
Lifeline	61,526		
Total Lines	7,793,133		

Installation Charges - Cooperative Testing

Sprint has developed optional cooperative testing procedures for loops ordered by a CLEC for the purpose of provisioning digital data service. For a loop to be capable of digital data service it must be free of impediments, i.e. load coils or bridge tap. Sprint follows a standardized set of procedures to determine whether the loop has acceptable loop limits before the CLEC participates in the test. If the loop fails Sprint's initial test, the NEAC will provide the CLEC the calculated charges to condition the loop*. If the loop passes the inital test, the CLEC will be able to cooperatively test the loop and will be charged the cooperative test NRC.

* Charges to condition the loop are based on the Loop Conditioning charges listed seperately in this study.

Installation Charge - Cooperative Testing	
	The following activities are included in the cooperative testing procedure for digital data loops which are found to be free of impediments: o Field Completion Test. o Connect MDF jumper from the CLEC DSLAM to the UNE Loop (if applicable). o Calling CLEC Test Center and Cooperative Test. o Tagging Loop and Confirmation of Test.

Installation Charges - Digital Data Loop
Cooperative Testing

	Field Completion Test	MDF Jumper	Call CLEC Testing Center	CLEC Test Line	Tag Loop and Provide CLEC demarc location	Avg. Trip Time	Total I&R Minutes	Total Frame Minutes	Percent Occurrence Factors	Weighted I&R Time in Minutes	Weighted Frame Time	Total NRC Cost
	I&R	Frame	I&R	I&R	I&R	I&R						
2 Wire Digital Data Loop												
Outside Plant Interconnection Cost	5		3	2	2	18	30		100%	30.0		$25.99
Central Office Interconnection Cost		7						7	100%		7.0	$5.04
Total										**30.0**	**7.0**	**$31.02**
4 Wire Digital Data Loop												
Outside Plant Interconnection Cost	10		3	4	2	18	37		100%	37.0		$32.05
Central Office Interconnection Cost		10						10	100%		10.0	$7.20
Total										**37.0**	**10.0**	**$39.25**

	Other Charges - Trouble Isolation and Testing											
	Non-Recurring Cost	Open and Test	Complete and Refer	Avg. Trip Time	Customer Contact	Open, Test & Restore	Complete and Refer	Total Frame Time	Total I&R Time	Percent Occurrence	Adjusted Time	Total NRC Cost
		Frame	Frame	I&R	I&R	I&R	I&R					
Central Office Testing		4	6					10		100%	10	$7.20
Field Testing				18	5	10	5		38	92%	35	$30.28
Total								10	38			**$37.48**

	Other Charges - Dark Fiber Testing								
	Connect Fiber Patch Cord at 1 the DLC	Set-up, Test & Record Results	Travel	Connect Fiber Patch Cord at 1 CO	Travel	Total Cable Splicer Minutes	Percent Occurrence Factors	Weighted Cable Splicer Time	Total NRC Cost
	COT	COT	COT	Equip. Installer	Equip. Installer				
Dark Fiber Testing									
Set-up, Test & Record Results - initial fiber strand		30				30	100%	30.0	$21.60
Trip Cost			36			36	100%	36	$25.91
Total								**66.0**	**$47.51**
Test & Record Results - additional fiber strand		20				20	100%	20	$14.40

Sprint Florida, Inc.

UNBUNDLED NETWORK ELEMENTS

NON-RECURRING COST STUDY

Miscellaneous

Installation Charges - Work Unit Descriptions	
Work Unit	**Description**
Connect OSP	Includes XB Jumper, travel from XB to Customer location, customer contact time, connection at terminal.
Field Completion Test	Time for Technician to perform completion testing (Current, C-Noise, Metallic Noise, Circuit Loss, Ring Back)
Avg. Trip Time	Average travel time from dispatch to beginning of job
Terminate at NID or Protector	Average time to terminate drop at NID or Protector
Close Order	Time for Technician connect HHT, Dial into 800#, Key Completion Data, Upload completion
Install NID	Time to install a Network Interface Device, includes bonding to Ground
MDF Jumper	Time to place a Jumper on a Main Distribution Frame
CO Completion Test	Time to Perform continuity testing, ring back
Remote Provisioning (est.)	Time to Access the remote NGDLC and reassign line to T1
NGDLC Factor	*NGDLC Factor is the percentage of lines that the model projects to work through a Digital Loop Carrier

Installation Charges - Miscellaneous Loop Inputs

Labor/DLC Inputs

Service Order - Electronic	$ 3.06
Service Order - Manual	$ 22.54
I&R Labor Rate	$ 51.97
Frame Labor Rate	$ 43.19
CO Tech Labor Rate	$ 43.19
NEAC Labor Rate	$ 26.65
CO Engineering Labor Rate	$ 43.09
Total Lines on Large DLC	1,438,203
Total Lines on Small DLC	101,479
Total Lines On DLC	1,539,682
Total Lines on Copper	603,901
Total Lines Served	2,143,583
Percent of Lines on DLC	71.83%
Percent of Lines on Large DLC	67.09%
Percent of Lines on Small DLC	4.73%
Percent of DLC Lines on Small DLC	6.59%
Percent of DLC Lines on Large DLC	93.41%
NGDLC Factor (DLC Lines/Total Lines)	71.83%

2W OSP Connection Charge Calculation

	Minutes/Line First	Minutes/Line Incremental
XC Jumper	6	6
Travel XC to Prem	7	0
Customer contact	5	0
Terminal	3	3
Total	**21**	**9**

4W OSP Connection Charge Calculation

	Minutes/Line First	Minutes/Line Incremental
XC Jumper	12	12
Travel XC to Prem	7	0
Customer contact	5	0
Terminal	6	6
Total	**30**	**18**

Labor Inputs		
Labor Rates	**Labor Group**	**FL**
OSP Technician (I&R)	300	$51.97
CO Technician	400	$43.19
CO Engineering	40	$43.09
NEAC	900	$26.65
Frame Tech	400	$43.19
OSP Eng	30	$37.37
Translations Eng.	40	$43.09
Facility Coordinator	950	$30.07

Dark Fiber Documentation
Sprint Loop Cost Model (SLCM)
Cost Study – Methods

Sprint Florida, Inc.

Dark Fiber Loops
Cost Study – Methods

Table of Contents

A. Purpose
B. Scope
C. Assumptions
D. Methodology
E. Results

A. PURPOSE

This document describes the process used to develop dark fiber costs for Sprint Florida, Inc. (Sprint). The Sprint Loop Cost Model (SLCM) is used to develop dark fiber costs for each wire center. These costs are used to develop dark fiber rates for CLECs that request those facilities.

B. SCOPE

This study develops the cost of Feeder, Distribution, and Interoffice (IX) fibers. The SLCM builds a network of optimized facilities within each of Sprint's actual wire centers. The model utilizes actual exchange boundaries and central office switch locations. Each interoffice route is merged with the appropriate local loop plant to maximize efficiency of sheath sizing and structure sharing. The wire center costs reflect actual distance, density, and terrain characteristic variations within each wire center.

C. ASSUMPTIONS

1. All Voice Grade through DS1 loops over 12,000 feet are served with fiber optic-based plant. All less than 12,000 feet are served with all copper facilities.

2. All DS3 facilities are served with fiber regardless of distance from the central office.

3. Actual central office line quantities including DS3s are utilized in the model.

4. All existing DS3 service locations are geo-coded to determine the appropriate facility segments to be used in the network modeling.

5. The most cost efficient optical terminal(s) is used to serve all DS3s at a single location.

6. Fiber quantities assume an active link and hot spare at each terminal location.

7. All Next Generation Digital Loop Carrier (NGDLC) systems, where possible, share fiber bandwidth up to manufacturer constrained fiber capacity.

8. IX fibers are embedded in feeder cable quantities and share structure for the appropriate main feeder distances between offices.

9. Additional monthly recurring charges relative to dark fiber (fiber patch panels and fiber patch cords) are developed outside of the SLCM on a separate Excel spreadsheet.

D. Methodology

1. General

The SLCM is a modified version of the Benchmark Cost Proxy Model used by Sprint in earlier proceedings. Refer to the SLCM Model Methodology, filed as an exhibit to Sprint witness Dunbar's testimony, for the detailed model description.

Some of the major changes incorporated into the SLCM are:

a.) IX fibers are included in the loop facility composition and are a part of the main feeder facilities to the end of the main feeder that points most closely at the distant wire center. From there, an IX fiber cable is constructed to the nearest feeder emanating from the distant wire center. It then becomes a part of that feeder until it reaches the distant office.

b.) The number of fibers and feet are tracked for each fiber cable segment so that an investment per fiber or fiber feet is produced.

c.) DS3 customer service locations were geo-coded to the appropriate Customer Serving Area (CSA)/grid. Fiber cable is placed in the distribution area for grids that contain DS3 customers.

d.) The SLCM produces investment per fiber or per fiber foot, which are then passed to an external worksheet for application of annual charge factors and final cost development.

2. Customer Data

The wire center lines input table adds specific inputs for switched or non-switched DS1s, DS3s, and other non-voice grade services, as well as the voice grade residence, business single, and business multi-line units. The geo-coded DS3s are entered via a separate input table that shows the wire center, grid identifier, and quantity. A separate input is provided as a toggle to use the DS3 wire center quantities if the geo-code table is not available.

****Note: Sprint has filed a Proprietary worksheet with a populated DS3 input table. These wire center-specific DS3s must be input into the "Miscellaneous Inputs" worksheet, and the model must be reprocessed in order to replicate any results filed by Sprint.

All CSA voice grade unit quantities are wire center actuals that are distributed to the CSAs using census unit data.

3. NGDLC Sizing

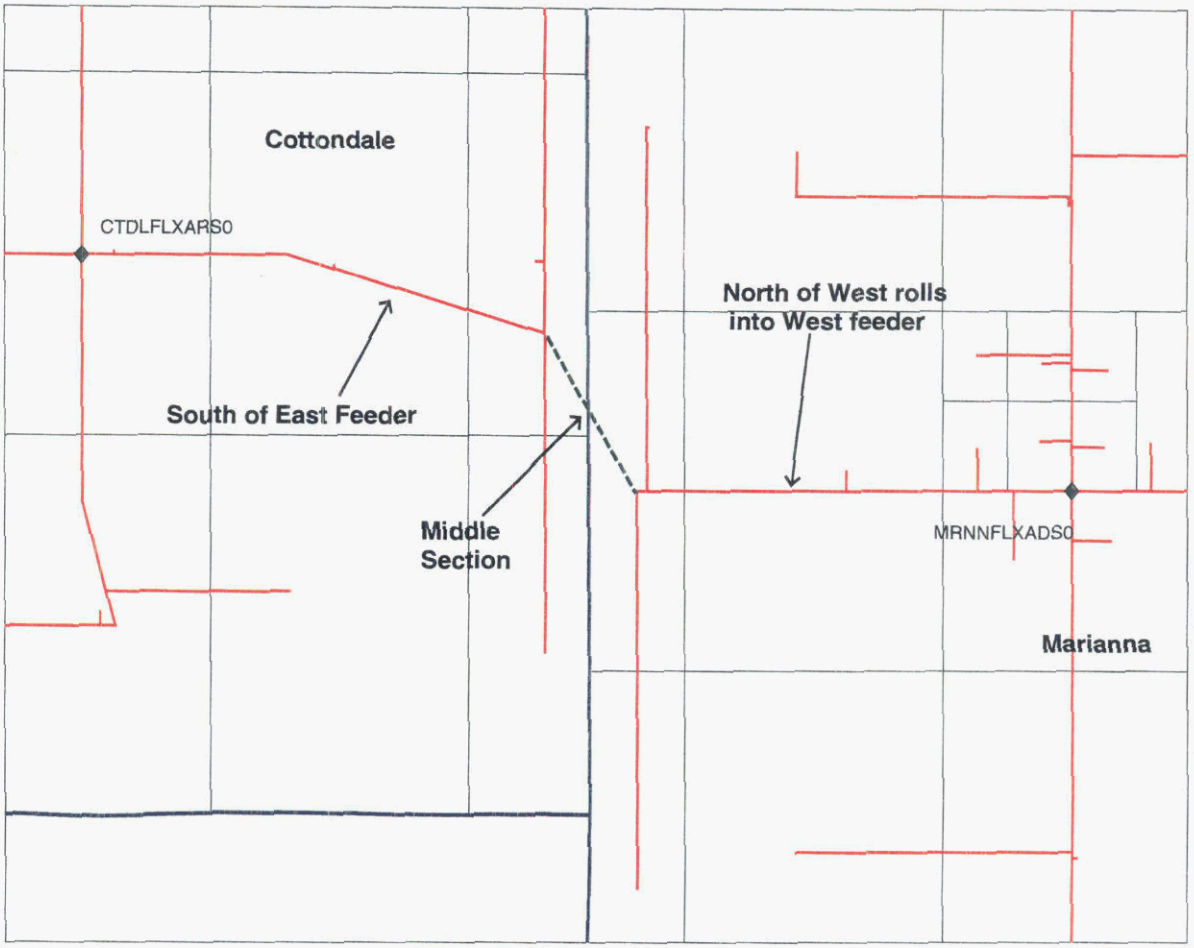
Each NGDLC is sized to the total bandwidth capacity of services provided in the CSA up to and including DS1 services. The bandwidth required for each service times the service quantity is used to calculate the total bandwidth requirements at the terminal. The appropriate terminal size or sizes are placed to serve the CSA. In cases of high bandwidth or unit quantities, multiple terminals may be required. For this particular study, only voice grade and DS1 quantities are used at the NGDLC. All other services show zero units.

4. Fiber Counts

Large and small NGDLCs that are not at capacity are tested along the feeder routes to determine if multiple like units can share fiber capacity (subject to vender equipment limitations). For example, Sprint's vendor-specific small NGDLCs have a backplane capacity of 672 voice grade channels. If three system are along the same subfeeder and each is serving 100 channels, all three systems will ride the same four fibers to the central office. Shared fibers appear as a collapsed ring for the NGDLCs sharing the fibers. Fiber capacity is capped at the backplane capacity times a fill factor input.

Separate fibers are provided in the feeder counts to serve locations with DS3s. A DS3 system table is populated with the number of DS3s per location; the least cost terminal type configured to serve that quantity; the quantity of terminals of that type required; and the number of fibers including "hot spares" to serve those terminals. The number of fibers required for the terminal(s) at the location are added to the NGDLC fiber quantities, are accumulated along the feeders, and segment cable sizes are set to serve each segment. The DS3 terminal fibers are also placed in a separate cable from the NGDLC into the appropriate quadrant. The separate cable is placed from the NGDLC to the quadrant centroid and half of the distribution cable distance. If DS3s are required in a grid served with copper, the needed fibers ride any fiber feeder for as long as possible. They then break off as a separate fiber cable sized to the terminal fiber count and share the same structure as the copper.

IX fiber counts are input into a table that shows the wire center CLLI, the direction from the central office, and the working fibers required for each route. Sprint's Florida Network Planners conducted a study of interoffice routes to determine the number of working fibers in the "middle section" of the IX routes. The "middle section" can be defined as the portion of the route that is no longer sharing the sheath with loop fibers. In other words, it is the fiber that extends from the last DLC in a wire center to the first DLC in the adjacent wire center. All IX routes were then placed into one of three categories based on working DS3 demand, and the working fibers for each route within each of the three categories were averaged. The input table contains the average working fibers for every IX route associated with each wire center. Utilizing interoffice facility maps provided by Network Planning and MapInfo., the actual direction of each route was determined. SLCM adds the number of fibers from the input table to the feeder route fibers in the designated direction(s). All IX, DS3, and NGDLC fibers along a route are included in the sheath sizing for each cable section. Since feeder cables stop short of the wire center boundary, a separate cable is placed to the wire center boundary. Comparable facilities are built in the reverse direction from the connecting wire center.

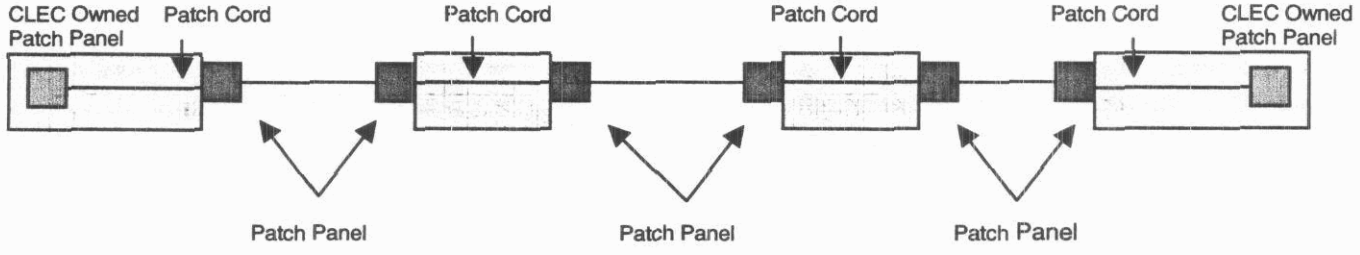


5. Structure Sharing

Any facility segment that contains both fiber and copper cables shares all structure costs between the fiber and copper. An input table sets the sharing percentages. The structure costs are then allocated to the CSAs served by copper or fiber on the basis of the number of pairs or fiber used in each CSA. Structure costs reflect the density and terrain characteristics for each CSA, through which it passes or serves.

6. Fiber Patch Panels/Fiber Patch Cords

In addition to the monthly recurring charges related to fiber itself, additional monthly recurring charges exist for the use of Sprint's fiber patch panels and fiber patch cords. The monthly recurring cost for a 72 position patch panel has been developed on a per position basis and the cost for a 50 meter patch cord has been developed on a per fiber basis. The total patch panel cost includes two patch panel positions at every intermediate office through which the fiber passes, as well as one patch panel position at both the originating and terminating office when the CLEC is collocated. The total patch cord cost includes a per fiber patch cord cost at every collocated office, as well as every intermediate office the fiber passes through. At the time of order, the total price relative to the patch panels and patch cords will be developed according to the number of intermediate offices the fiber passes through.



E. Results

Dark Fiber Feeder – Central office to DLC site

The average feeder investment per fiber is produced by the SLCM on the "Allocations, Statistics, & Costs" worksheet and extracted into an Excel spreadsheet by wire center. Based on the total investment of aerial fiber, buried fiber, underground fiber, poles and conduit, an annual charge factor is developed and applied to the per fiber investment to calculate the monthly cost per fiber of dark fiber feeder for each wire center. Common costs were also applied to determine the total cost per fiber for each wire center.

Dark Fiber Distribution – DLC to customer premise

The average distribution investment per fiber is produced by the SLCM on the "Allocations, Statistics, & Costs" worksheet and extracted into an Excel spreadsheet by wire center. Based on the total investment of aerial fiber, buried fiber, underground fiber, poles and conduit, an annual charge factor is developed and applied to the per fiber investment to calculate the monthly cost per fiber of dark fiber distribution for each wire

center with DS3 demand. Common costs were also applied to determine the total cost per fiber.

Dark Fiber Interoffice (IX)

The average IX investment per foot per fiber is produced by the SLCM on the "Allocations, Statistics, & Costs" worksheet and extracted into an Excel spreadsheet by wire center. Based on the total investment of aerial fiber, buried fiber, underground fiber, poles and conduit, an annual charge factor is developed and applied to the per foot per fiber investment to calculate the monthly cost per foot per fiber of IX dark fiber for each wire center. Common costs were also applied to determine the total cost per foot per fiber for each wire center.

	LOOP							Interoffice					
	Investment Per Fiber							Investment Per Foot Per Fiber					
Wire Center	Feeder	Distribution	Aerial Fiber	Buried Fiber	Ugrd. Fiber	Poles	Conduit	IX	Aerial Fiber	Buried Fiber	Ugrd. Fiber	Poles	Conduit
ALFRFLXARS0	$ 9,744		6,330	432,083	79,549	35,333	234,842	$ 0.6570	1,949	75,980	12,347	631	25,379
ALSPFLXADS0	$ 8,029		13,165	572,266	284,802	214,974	1,230,406	$ 0.4966	3,463	86,312	45,706	1,878	69,429
ALVAFLXARS0	$ 5,976		2,057	139,999	24,986	19,874	80,510	$ 0.4442	5,134	181,106	27,134	2,020	59,730
APPKFLXADS1	$ 10,707	$ 2,101	18,304	988,314	322,735	200,181	1,156,691	$ 0.3153	7,717	290,386	75,352	2,425	136,473
ARCDFLXADS0	$ 13,349		35,218	2,537,675	389,876	159,668	1,250,409	$ 0.3338	6,542	319,184	52,562	1,430	92,896
ASTRFLXARS0	$ 10,479		4,328	297,646	54,152	22,694	172,905	$ 0.7122	2,284	109,047	13,658	689	29,425
AVPKFLXADS0	$ 10,227		12,387	801,729	169,836	112,503	588,309	$ 0.4134	7,971	382,492	60,622	2,543	117,537
BAKRFLXADS0	$ 11,986		16,149	1,155,408	185,942	64,662	522,872	$ 0.7495	2,552	139,222	17,803	866	37,718
BCGRFLXARS0	$ 3,522		532	25,462	9,204	13,948	60,567	$ 0.9068	1,993	74,260	24,825	1,256	49,507
BLVWFLXADS0	$ 12,098		13,973	809,944	235,785	167,341	860,789	$ 0.5990	8,136	253,396	77,562	3,355	156,655
BNFYFLXARS0	$ 11,480		13,389	900,236	172,862	86,745	554,377	$ 0.6404	3,668	188,841	28,330	1,049	57,872
BNSPFLXADS1	$ 11,303		19,782	1,087,816	341,423	178,927	1,096,057	$ 0.4572	5,288	160,474	64,334	2,043	104,081
BSHNFLXADS0	$ 14,127		24,225	1,614,586	312,591	140,274	948,939	$ 0.3803	6,618	283,417	61,417	2,013	112,173
BVHLFLXADS0	$ 11,623	$ 2,395	7,187	395,217	128,923	112,038	515,154	$ 0.6640	8,395	253,692	62,648	3,428	125,570
BWLGFLXARS0	$ 7,006		4,112	301,943	43,865	23,654	151,901	$ 0.7662	2,837	111,450	13,930	1,317	33,245
CFVLFLXADS0	$ 10,592		12,151	808,999	150,449	79,412	421,238	$ 0.6497	11,995	597,931	99,570	3,412	190,806
CHLKFLXARS0	$ 8,736		5,038	329,756	67,866	34,195	203,485	$ 0.7597	1,573	50,836	6,829	230	14,327
CHSWFLXARS0	$ 7,253		2,613	159,285	39,455	34,536	159,424	$ 0.8648	2,551	76,203	16,575	1,361	39,233
CLMTFLXADS0	$ 12,817		16,826	1,071,151	238,964	115,951	779,193	$ 0.4548	6,586	235,986	63,635	2,092	120,172
CLTNFLXARS0	$ 14,785		40,392	3,069,913	412,883	110,731	1,259,711	$ 0.5099	4,293	249,571	34,330	578	60,485
CPCRFLXADS0	$ 7,661		9,632	464,662	195,608	174,520	856,819	$ 0.5119	2,294	47,723	20,418	1,432	39,353
CPCRFLXBDS1	$ 8,762		9,879	494,865	192,524	196,217	839,628	$ 0.5790	5,662	156,175	46,807	2,732	88,200
CPHZFLXADS0	$ 13,451		9,273	508,619	168,870	82,116	570,886	$ 0.6969	6,893	254,451	53,902	2,752	106,890
CRRVFLXADS0	$ 16,024		13,891	1,032,180	209,958	126,922	755,352	$ 0.8794	4,897	230,527	52,877	2,154	110,570
CRVWFLXADS0	$ 12,564		12,896	790,789	191,502	139,955	708,449	$ 0.7205	8,052	283,204	67,667	2,588	130,422
CSLBFLXADS1	$ 9,640		5,875	271,049	127,508	91,853	574,336	$ 0.7426	2,789	63,180	28,164	1,719	56,692
CTDLFLXARS0	$ 8,336		4,873	339,804	57,977	29,565	169,052	$ 0.7506	4,460	172,431	28,696	1,186	58,444
CYLKFLXADS0	$ 9,235		31,054	1,524,188	601,426	274,092	1,788,659	$ 0.5626	7,363	232,781	85,551	2,885	147,251
CYLKFLXBRS0	$ 9,002	$ 3,334	4,312	219,016	83,657	35,809	247,732	$ 0.7948	3,560	124,179	35,081	1,466	62,788
DDCYFLXADS1	$ 13,272		12,252	784,481	174,582	108,655	665,043	$ 0.4667	6,185	240,827	44,608	2,091	87,110
DESTFLXADS0	$ 8,431		7,605	350,550	151,563	68,874	520,831	$ 0.7409	3,871	136,133	54,285	1,188	92,189
DFSPFLXADS0	$ 11,526		16,306	1,063,201	212,714	118,198	668,017	$ 0.5325	12,771	603,030	117,701	3,325	221,799
ESTSFLXADS0	$ 12,065		16,498	986,935	248,960	154,293	875,738	$ 0.5037	3,342	86,951	30,682	2,047	62,791
EVRGFLXARS0	$ 18,199		28,265	2,454,953	271,599	47,908	782,885	-	-	-	-	-	-
FRPTFLXARS0	$ 10,349		10,791	737,997	132,050	49,882	376,290	$ 0.7080	4,811	231,670	34,564	1,505	70,932
FTMBFLXADS0	$ 15,578		4,782	226,696	106,180	39,858	412,993	$ 1.2862	1,459	40,142	17,086	832	37,674
FTMDFLXARS0	$ 8,232		4,558	323,477	52,294	36,849	216,767	$ 0.7126	1,545	74,454	15,211	558	33,411
FTMYFLXADS0	$ 7,383	$ 500	5,585	273,593	108,090	111,606	600,925	$ 0.3726	6,656	218,261	76,719	3,990	144,916
FTMYFLXBDS0	$ 10,453		8,731	470,687	151,095	104,896	581,232	$ 0.4444	5,256	188,452	49,518	2,219	96,128
FTMYFLXCDS2	$ 8,920	$ 794	9,334	416,009	202,548	123,767	812,331	$ 0.6677	1,883	44,964	25,461	1,042	37,095
FTWBFLXADS0	$ 7,088	$ 436	5,078	217,984	106,633	93,155	479,861	$ 0.3056	3,214	87,834	34,374	1,646	54,891
FTWBFLXBDS0	$ 9,289	$ 733	3,496	143,456	76,790	95,830	565,281	$ 1.0418	2,772	53,029	24,367	1,915	50,243
FTWBFLXCRS0	$ 9,297		1,192	66,338	21,670	21,040	97,351	$ 1.0501	1,641	39,577	7,532	1,119	16,914
GDRGFLXADS0	$ 10,331		11,947	800,790	155,963	57,327	444,418	$ 0.7631	2,511	112,506	21,254	885	44,340
GLDLFLXARS0	$ 9,980		6,858	478,713	82,477	30,031	238,175	$ 0.7259	1,968	112,806	16,163	557	34,582
GLGCFLXADS0	$ 12,288	$ 1,231	18,703	1,131,553	293,175	178,259	1,042,353	$ 0.3788	6,810	249,606	53,917	2,222	93,166
GLRDFLXADS0	$ 7,203	$ 900	15,287	672,748	330,288	189,628	1,250,869	$ 0.5755	2,604	62,154	28,618	1,614	47,778
GNVLFLXARS0	$ 11,214		15,353	1,181,324	146,726	42,746	414,470	$ 0.5850	6,532	367,237	44,576	1,569	88,566
GNWDFLXARS0	$ 6,755		2,184	154,756	25,245	15,628	78,913	$ 0.7653	2,726	108,923	13,105	1,359	29,563

DARK FIBER INVESTMENTS

	LOOP							Interoffice					
	Investment Per Fiber							Investment Per Foot Per Fiber					
Wire Center	Feeder	Distribution	Aerial Fiber	Buried Fiber	Ugrd. Fiber	Poles	Conduit	IX	Aerial Fiber	Buried Fiber	Ugrd. Fiber	Poles	Conduit
GVLDFLXARS0	$ 11,699		10,888	729,663	139,320	66,808	441,974	$ 0.4268	4,600	177,405	31,706	1,446	64,880
HMSPFLXARS0	$ 9,808		6,470	405,609	110,788	108,722	437,422	$ 0.8120	6,892	237,398	58,789	2,494	121,218
HOWYFLXARS0	$ 9,155		1,812	113,739	27,623	20,474	97,283	$ 0.6628	1,736	71,626	12,503	569	26,099
IMKLFLXARS0	$ 13,683		30,527	2,321,042	307,267	89,209	940,119	$ 0.3559	6,829	371,602	56,696	1,454	103,708
INVRFLXADS0	$ 13,552		28,040	1,620,249	452,254	256,626	1,415,865	$ 0.4315	10,347	408,528	95,654	3,438	160,157
KGLKFLXARS0	$ 5,770		1,706	122,669	18,513	10,791	54,673	$ 0.7892	1,860	65,659	9,947	702	21,417
KNVLFLXARS0	$ 12,868		22,662	1,769,606	209,753	36,486	573,527	$ 0.3351	9,061	523,222	71,062	1,441	135,368
KSSMFLXADS0	$ 11,450	$ 1,574	26,822	1,431,577	475,150	235,225	1,508,183	$ 0.4191	8,002	300,147	106,009	2,492	173,354
KSSMFLXBDS1	$ 14,625	$ 2,963	16,489	925,708	287,586	81,570	842,542	$ 0.5029	4,549	118,096	36,402	2,134	68,072
KSSMFLXDRS0	$ 8,092		3,802	187,294	72,094	54,269	332,203	$ 0.7920	1,282	28,985	13,907	655	24,094
LBLLFLXADS0	$ 13,487		27,391	1,955,994	312,188	105,417	926,076	$ 0.3948	6,954	343,357	63,778	1,476	122,331
LDLKFLXADS0	$ 12,292		9,978	565,931	168,963	99,853	621,682	$ 0.8159	4,287	118,342	35,997	2,003	66,280
LEE FLXARS0	$ 10,010		8,790	641,723	97,058	37,937	281,251	$ 0.7741	1,780	56,972	7,534	724	16,282
LHACFLXADS0	$ 9,959		12,308	783,708	175,127	138,896	682,747	$ 0.4561	7,146	360,593	59,339	1,845	118,889
LKBRFLXADS1	$ 8,955	$ 1,120	10,890	490,618	237,861	173,709	1,074,728	$ 0.5493	2,589	69,447	33,155	2,169	63,364
LKHLFLXARS0	$ 10,114		1,380	98,074	16,174	22,171	97,646	$ 0.9924	1,597	30,515	5,642	654	14,291
LKPCFLXARS0	$ 14,195		39,264	2,819,670	453,611	155,510	1,383,954	$ 0.6409	3,110	176,675	27,809	584	52,666
LSBGFLXADS1	$ 11,105		22,821	1,300,877	374,921	201,190	1,231,896	$ 0.4510	11,848	457,135	128,528	4,304	225,738
LWTYFLXARS0	$ 8,405		3,154	224,339	36,330	21,057	108,660	$ 0.7887	1,583	65,370	11,708	613	25,157
MALNFLXARS0	$ 8,341		6,896	478,982	83,046	36,444	235,002	$ 0.6872	2,274	104,734	20,808	607	41,677
MDSNFLXADS0	$ 9,017		9,406	673,263	105,653	69,944	381,033	$ 0.6562	7,818	387,672	60,738	1,890	119,586
MNTIFLXADS0	$ 13,064		43,053	3,177,929	465,208	147,471	1,361,573	$ 0.5889	6,758	371,576	50,292	1,273	94,291
MOISFLXADS0	$ 8,855		10,084	584,500	168,132	102,248	692,770	$ 0.1963	1,937	68,153	18,729	579	32,934
MRHNFLXARS0	$ 13,749		11,263	839,164	113,230	37,681	336,382	$ 0.3679	8,052	408,708	51,685	1,874	97,647
MRNNFLXADS0	$ 12,349		17,345	1,156,635	223,422	113,627	744,868	$ 0.5289	7,735	330,592	66,863	2,192	132,484
MTDRFLXADS0	$ 9,963		10,277	583,028	166,659	117,629	629,195	$ 0.4794	4,957	196,914	55,394	1,737	110,405
MTLDFLXADS1	$ 3,180	$ 526	130	3,936	3,104	19,717	161,096	$ 0.5985	2,319	43,462	20,646	1,103	37,591
MTVRFLXARS0	$ 9,165		918	58,886	12,670	13,345	56,996	$ 0.8062	1,457	47,215	7,613	661	17,833
NFMYFLXADS0	$ 8,804		4,926	216,905	103,637	86,872	514,295	$ 0.7447	4,535	114,623	46,937	2,368	88,506
NFMYFLXBDS0	$ 12,628	$ 624	12,129	667,956	201,119	108,753	736,642	$ 0.9031	2,732	84,380	40,273	893	76,982
NNPLFLXADS1	$ 6,734	$ 1,362	14,265	646,717	296,715	153,120	934,080	$ 0.4601	3,863	98,172	40,829	1,526	59,930
NPLSFLXCDS0	$ 10,913		19,414	1,061,796	346,728	167,064	1,213,180	$ 0.3972	3,386	155,831	29,491	1,490	56,208
NPLSFLXDDS0	$ 7,568	$ 375	17,110	801,251	378,716	184,543	1,323,126	$ 0.3909	3,023	73,612	31,798	1,357	51,728
OCALFLXADS0	$ 11,112	$ 1,608	33,188	1,707,177	584,869	361,909	1,831,951	$ 0.4568	14,262	495,495	154,010	5,566	244,136
OCALFLXBDS0	$ 16,786	$ 924	29,604	1,612,937	489,671	197,726	1,379,314	$ 0.4154	5,679	215,043	70,273	1,765	112,701
OCALFLXCRS0	$ 8,628		2,776	137,254	55,673	65,261	300,888	$ 1.0015	3,218	78,430	31,923	1,384	67,295
OCNFFLXARS0	$ 12,259		12,906	909,382	148,709	64,914	418,267	$ 0.6630	5,492	245,317	39,869	1,709	76,607
OKCBFLXADS0	$ 17,331		85,594	6,152,398	973,286	228,593	2,766,185	$ 0.3477	19,752	1,154,593	181,477	3,801	305,781
OKLWFLXADS0	$ 12,217		5,434	333,565	78,543	51,981	255,074	$ 0.8246	5,026	157,638	31,695	1,331	65,464
ORCYFLXADS0	$ 8,279		3,697	177,008	70,552	71,406	404,796	$ 0.8194	2,743	68,190	30,986	1,517	53,797
ORCYFLXCRS0	$ 8,203		6,265	317,552	120,048	111,317	494,892	$ 0.6740	1,707	53,427	19,828	660	32,282
PANCFLXARS0	$ 8,595		2,335	156,809	30,041	16,025	92,209	$ 0.7160	1,440	49,899	4,941	674	12,567
PNGRFLXADS1	$ 13,127		38,137	2,567,744	484,003	211,611	1,470,014	$ 0.4387	6,132	208,978	61,880	2,312	109,379
PNISFLXADS0	$ 9,276		9,947	628,741	135,549	63,568	382,244	$ 0.7025	6,516	245,780	65,478	2,085	118,014
PNLNFLXARS0	$ 8,916		6,912	474,590	85,003	33,643	241,575	$ 0.6312	1,570	80,643	9,513	541	20,120
PTCTFLXADS0	$ 9,497		25,936	1,229,379	503,971	350,242	1,757,457	$ 0.4886	7,074	261,931	76,058	1,864	118,441
RYHLFLXARS0	$ 11,267		13,866	960,536	171,318	56,379	488,858	-	-	-	-	-	-
SBNGFLXADS1	$ 10,581		19,075	1,089,268	315,922	196,893	1,075,493	$ 0.5040	7,782	334,984	73,492	2,139	138,871
SGBHFLXARS0	$ 10,581		19,075	1,089,268	315,922	196,893	1,075,493	$ 0.5040	7,782	334,984	73,492	2,139	138,871

	LOOP							Interoffice					
	Investment Per Fiber							Investment Per Foot Per Fiber					
Wire Center	Feeder	Distribution	Aerial Fiber	Buried Fiber	Ugrd. Fiber	Poles	Conduit	IX	Aerial Fiber	Buried Fiber	Ugrd. Fiber	Poles	Conduit
SHLMFLXADS0	$ 2,720		275	11,595	5,578	36,082	127,189	$ 0.9015	1,967	42,791	12,103	1,374	21,378
SLHLFLXARS0	$ 11,523		10,775	724,834	138,113	54,419	403,662	$ 0.4610	6,946	350,252	52,313	1,887	106,031
SNANFLXARS0	$ 11,403		4,975	317,816	66,914	35,677	200,191	$ 0.7956	3,437	128,783	27,864	1,052	55,038
SNDSFLXARS0	$ 9,150		3,491	226,758	46,373	30,664	180,519	$ 0.7121	2,185	100,010	20,838	730	43,506
SNISFLXADS0	$ 11,682		8,302	450,653	157,990	60,597	486,327	$ 0.8944	4,814	232,662	60,712	2,124	122,119
SNRSFLXARS0	$ 7,816		3,431	201,410	52,030	36,721	165,141	$ 0.5268	4,203	157,014	37,165	1,882	76,000
SPCPFLXADS0	$ 9,643		8,024	591,981	85,800	30,687	246,880	$ 0.7376	2,671	102,981	16,906	763	34,264
SSPRFLXARS0	$ 7,782		3,523	241,673	40,704	24,056	120,872	$ 0.6568	2,929	164,008	21,244	634	43,076
STCDFLXADS0	$ 16,283		47,959	3,503,745	524,933	193,982	1,668,949	$ 0.3976	10,785	474,590	96,873	3,235	176,908
STMKFLXARS0	$ 8,652		2,952	195,498	38,366	18,037	116,172	$ 0.7315	2,430	109,052	20,823	877	43,371
STRKFLXADS0	$ 11,597		8,797	570,245	120,472	82,113	447,636	$ 0.6680	4,409	175,507	31,447	1,145	63,310
SVSPFLXARS0	$ 15,263		11,939	777,755	166,138	55,164	525,791	$ 0.8146	2,460	90,621	18,743	958	38,284
SVSSFLXARS0	$ 9,428		3,075	145,458	59,100	48,793	284,804	$ 0.7862	4,107	142,738	34,176	1,307	70,563
TLCHFLXARS0	$ 9,147		6,104	402,388	85,863	57,436	300,809	$ 0.8632	1,436	28,162	5,268	523	13,530
TLHSFLXADS0	$ 2,154	$ 532	2,889	109,646	66,579	114,188	586,023	$ 0.5970	3,212	74,179	42,765	2,215	80,370
TLHSFLXBDS0	$ 8,640	$ 765	6,947	314,622	145,125	112,048	664,195	$ 0.7677	2,092	54,141	26,623	1,466	52,128
TLHSFLXCDS0	$ 12,833	$ 659	22,412	1,382,806	321,552	155,877	1,130,500	$ 0.5408	9,136	421,286	108,721	2,482	184,080
TLHSFLXDDS0	$ 13,013	$ 616	22,508	1,209,363	402,515	212,029	1,344,853	$ 0.6081	4,837	179,464	50,220	1,931	95,323
TLHSFLXEDS0	$ 1,360		253	11,132	6,104	8,737	36,119	$ 0.7438	1,121	19,781	6,980	1,147	17,764
TLHSFLXFDS0	$ 11,097		19,722	1,217,724	294,877	161,343	954,299	$ 0.8656	1,217	33,402	13,867	852	28,896
TLHSFLXGDS0	$ 11,046		8,711	582,341	112,391	57,740	351,989	$ 0.7254	4,299	151,604	26,397	1,662	54,144
TLHSFLXHDS0	$ 7,187		4,455	240,169	78,131	61,572	332,113	$ 0.7741	5,594	208,005	45,311	2,247	94,846
TVRSFLXADS0	$ 11,021	$ 512	9,030	502,180	154,539	94,811	602,141	$ 0.5459	3,882	105,886	38,683	1,967	80,322
UMTLFLXARS0	$ 12,489		16,319	1,089,743	205,902	90,566	609,493	$ 0.6419	4,498	218,090	39,689	1,206	79,078
VLPRFLXADS0	$ 9,097		3,501	169,991	69,019	67,398	382,091	$ 0.7989	3,121	98,940	29,740	1,518	59,524
VLPRFLXBRS0	$ 18,275		2,366	126,435	43,598	33,035	212,408	$ 1.0397	1,905	45,007	11,293	1,170	26,152
WCHLFLXADS0	$ 11,346		11,032	758,208	135,878	75,672	460,968	$ 0.3991	6,791	248,731	44,814	2,250	90,288
WLSTFLXARS0	$ 13,261		17,873	1,195,466	232,365	99,118	709,213	$ 0.6214	4,356	182,083	31,355	1,227	61,940
WLWDFLXARS0	$ 11,834		14,305	942,354	188,418	84,823	592,492	$ 0.7694	5,608	217,818	45,174	2,119	88,740
WNDRFLXARS0	$ 11,482		4,630	252,222	89,051	44,160	316,551	$ 0.7468	3,495	120,047	26,589	1,362	57,500
WNGRFLXADS0	$ 9,557		11,805	636,601	206,032	124,178	742,502	$ 0.4346	8,905	366,068	88,156	2,496	157,689
WNPKFLXADS1	$ 6,738	$ 571	10,889	481,619	232,343	186,574	1,058,343	$ 0.3113	4,848	131,037	66,178	2,856	110,932
WSTVFLXARS0	$ 9,585		5,590	376,754	71,947	28,972	202,282	$ 0.6614	1,915	74,053	12,155	634	25,044
ZLSPFLXARS0	$ 11,350		16,196	1,248,225	157,473	53,695	455,440	$ 0.8059	2,022	32,365	2,011	696	7,383
Totals			1,666,860	106,292,697	24,551,733	12,950,823	83,709,771		616,778	24,476,201	6,534,445	217,441	10,372,425
ACF (Sprint UNE Model)			23.81%	23.48%	23.53%	22.79%	21.42%		25.95%	25.62%	25.68%	24.94%	23.56%
			401,655	24,957,052	5,777,443	2,952,115	17,929,971		160,079	6,271,502	1,420,972	54,228	2,444,009
							52,018,235						10,350,788
							229,192,084						41,217,290
Dark Fiber ACFs							22.70%						25.11%

FL DARK FIBER

ACF	25.11%
Common Cost	15%

	Interoffice Facilities	
Wire Center	Investment Per Ft. Per Fiber	Cost Per Ft. Per Fiber
ALFRFLXARS0	$ 0.6570	$ 0.0158
ALSPFLXADS0	$ 0.4966	$ 0.0120
ALVAFLXARS0	$ 0.4442	$ 0.0107
APPKFLXADS1	$ 0.3153	$ 0.0076
ARCDFLXADS0	$ 0.3338	$ 0.0080
ASTRFLXARS0	$ 0.7122	$ 0.0171
AVPKFLXADS0	$ 0.4134	$ 0.0099
BAKRFLXADS0	$ 0.7495	$ 0.0180
BCGRFLXARS0	$ 0.9068	$ 0.0218
BLVWFLXADS0	$ 0.5990	$ 0.0144
BNFYFLXARS0	$ 0.6404	$ 0.0154
BNSPFLXADS1	$ 0.4572	$ 0.0110
BSHNFLXADS0	$ 0.3803	$ 0.0092
BVHLFLXADS0	$ 0.6640	$ 0.0160
BWLGFLXARS0	$ 0.7662	$ 0.0184
CFVLFLXADS0	$ 0.6497	$ 0.0156
CHLKFLXARS0	$ 0.7597	$ 0.0183
CHSWFLXARS0	$ 0.8648	$ 0.0208
CLMTFLXADS0	$ 0.4548	$ 0.0109
CLTNFLXARS0	$ 0.5099	$ 0.0123
CPCRFLXADS0	$ 0.5119	$ 0.0123
CPCRFLXBDS1	$ 0.5790	$ 0.0139
CPHZFLXADS0	$ 0.6969	$ 0.0168
CRRVFLXADS0	$ 0.8794	$ 0.0212
CRVWFLXADS0	$ 0.7205	$ 0.0173
CSLBFLXADS1	$ 0.7426	$ 0.0179
CTDLFLXARS0	$ 0.7506	$ 0.0181
CYLKFLXADS0	$ 0.5626	$ 0.0135
CYLKFLXBRS0	$ 0.7948	$ 0.0191
DDCYFLXADS1	$ 0.4667	$ 0.0112
DESTFLXADS0	$ 0.7409	$ 0.0178
DFSPFLXADS0	$ 0.5325	$ 0.0128
ESTSFLXADS0	$ 0.5037	$ 0.0121
EVRGFLXARS0	$ -	$ -
FRPTFLXARS0	$ 0.7080	$ 0.0170
FTMBFLXADS0	$ 1.2862	$ 0.0310
FTMDFLXARS0	$ 0.7126	$ 0.0171
FTMYFLXADS0	$ 0.3726	$ 0.0090
FTMYFLXBDS0	$ 0.4444	$ 0.0107
FTMYFLXCDS2	$ 0.6677	$ 0.0161
FTWBFLXADS0	$ 0.3056	$ 0.0074
FTWBFLXBDS0	$ 1.0418	$ 0.0251
FTWBFLXCRS0	$ 1.0501	$ 0.0253
GDRGFLXADS0	$ 0.7631	$ 0.0184
GLDLFLXARS0	$ 0.7259	$ 0.0175
GLGCFLXADS0	$ 0.3788	$ 0.0091
GLRDFLXADS0	$ 0.5755	$ 0.0139
GNVLFLXARS0	$ 0.5850	$ 0.0141

	Interoffice Facilities	
Wire Center	Investment Per Ft. Per Fiber	Cost Per Ft. Per Fiber
GNWDFLXARS0	$ 0.7653	$ 0.0184
GVLDFLXARS0	$ 0.4268	$ 0.0103
HMSPFLXARS0	$ 0.8120	$ 0.0195
HOWYFLXARS0	$ 0.6628	$ 0.0160
IMKLFLXARS0	$ 0.3559	$ 0.0086
INVRFLXADS0	$ 0.4315	$ 0.0104
KGLKFLXARS0	$ 0.7892	$ 0.0190
KNVLFLXARS0	$ 0.3351	$ 0.0081
KSSMFLXADS0	$ 0.4191	$ 0.0101
KSSMFLXBDS1	$ 0.5029	$ 0.0121
KSSMFLXDRS0	$ 0.7920	$ 0.0191
LBLLFLXADS0	$ 0.3948	$ 0.0095
LDLKFLXADS0	$ 0.8159	$ 0.0196
LEE FLXARS0	$ 0.7741	$ 0.0186
LHACFLXADS0	$ 0.4561	$ 0.0110
LKBRFLXADS1	$ 0.5493	$ 0.0132
LKHLFLXARS0	$ 0.9924	$ 0.0239
LKPCFLXARS0	$ 0.6409	$ 0.0154
LSBGFLXADS1	$ 0.4510	$ 0.0109
LWTYFLXARS0	$ 0.7887	$ 0.0190
MALNFLXARS0	$ 0.6872	$ 0.0165
MDSNFLXADS0	$ 0.6562	$ 0.0158
MNTIFLXADS0	$ 0.5889	$ 0.0142
MOISFLXADS0	$ 0.1963	$ 0.0047
MRHNFLXARS0	$ 0.3679	$ 0.0089
MRNNFLXADS0	$ 0.5289	$ 0.0127
MTDRFLXADS0	$ 0.4794	$ 0.0115
MTLDFLXADS1	$ 0.5985	$ 0.0144
MTVRFLXARS0	$ 0.8062	$ 0.0194
NFMYFLXADS0	$ 0.7447	$ 0.0179
NFMYFLXBDS0	$ 0.9031	$ 0.0217
NNPLFLXADS1	$ 0.4601	$ 0.0111
NPLSFLXCDS0	$ 0.3972	$ 0.0096
NPLSFLXDDS0	$ 0.3909	$ 0.0094
OCALFLXADS0	$ 0.4568	$ 0.0110
OCALFLXBDS0	$ 0.4154	$ 0.0100
OCALFLXCRS0	$ 1.0015	$ 0.0241
OCNFFLXARS0	$ 0.6630	$ 0.0160
OKCBFLXADS0	$ 0.3477	$ 0.0084
OKLWFLXADS0	$ 0.8246	$ 0.0198
ORCYFLXADS0	$ 0.8194	$ 0.0197
ORCYFLXCRS0	$ 0.6740	$ 0.0162
PANCFLXARS0	$ 0.7160	$ 0.0172
PNGRFLXADS1	$ 0.4387	$ 0.0106
PNISFLXADS0	$ 0.7025	$ 0.0169
PNLNFLXARS0	$ 0.6312	$ 0.0152
PTCTFLXADS0	$ 0.4886	$ 0.0118
RYHLFLXARS0	$ -	$ -
SBNGFLXADS1	$ 0.5040	$ 0.0121
SGBHFLXARS0	$ 0.5040	$ 0.0121
SHLMFLXADS0	$ 0.9015	$ 0.0217
SLHLFLXARS0	$ 0.4610	$ 0.0111
SNANFLXARS0	$ 0.7956	$ 0.0191
SNDSFLXARS0	$ 0.7121	$ 0.0171

	Interoffice Facilities	
Wire Center	Investment Per FL Per Fiber	Cost Per FL Per Fiber
SNISFLXADS0	$ 0.8944	$ 0.0215
SNRSFLXARS0	$ 0.5268	$ 0.0127
SPCPFLXADS0	$ 0.7376	$ 0.0178
SSPRFLXARS0	$ 0.6568	$ 0.0158
STCDFLXADS0	$ 0.3976	$ 0.0096
STMKFLXARS0	$ 0.7315	$ 0.0176
STRKFLXADS0	$ 0.6680	$ 0.0161
SVSPFLXARS0	$ 0.8146	$ 0.0196
SVSSFLXARS0	$ 0.7862	$ 0.0189
TLCHFLXARS0	$ 0.8632	$ 0.0208
TLHSFLXADS0	$ 0.5970	$ 0.0144
TLHSFLXBDS0	$ 0.7677	$ 0.0185
TLHSFLXCDS0	$ 0.5408	$ 0.0130
TLHSFLXDDS0	$ 0.6081	$ 0.0146
TLHSFLXEDS0	$ 0.7438	$ 0.0179
TLHSFLXFDS0	$ 0.8656	$ 0.0208
TLHSFLXGDS0	$ 0.7254	$ 0.0175
TLHSFLXHDS0	$ 0.7741	$ 0.0186
TVRSFLXADS0	$ 0.5459	$ 0.0131
UMTLFLXARS0	$ 0.6419	$ 0.0154
VLPRFLXADS0	$ 0.7989	$ 0.0192
VLPRFLXBRS0	$ 1.0397	$ 0.0250
WCHLFLXADS0	$ 0.3991	$ 0.0096
WLSTFLXARS0	$ 0.6214	$ 0.0150
WLWDFLXARS0	$ 0.7694	$ 0.0185
WNDRFLXARS0	$ 0.7468	$ 0.0180
WNGRFLXADS0	$ 0.4346	$ 0.0105
WNPKFLXADS1	$ 0.3113	$ 0.0075
WSTVFLXARS0	$ 0.6614	$ 0.0159
ZLSPFLXARS0	$ 0.8059	$ 0.0194

FL DARK FIBER

ACF	22.70%
Common Cost	15%

	LOOP			
	Investment Per Fiber		Cost Per Fiber	
Wire Center	Feeder	Distribution	Feeder	Distribution
ALFRFLXARS0	$ 9,744		$ 211.94	
ALSPFLXADS0	$ 8,029		$ 174.64	
ALVAFLXARS0	$ 5,976		$ 129.98	
APPKFLXADS1	$ 10,707	$ 2,101	$ 232.88	$ 45.69
ARCDFLXADS0	$ 13,349		$ 290.36	
ASTRFLXARS0	$ 10,479		$ 227.93	
AVPKFLXADS0	$ 10,227		$ 222.44	
BAKRFLXADS0	$ 11,986		$ 260.70	
BCGRFLXARS0	$ 3,522		$ 76.61	
BLVWFLXADS0	$ 12,098		$ 263.15	
BNFYFLXARS0	$ 11,480		$ 249.70	
BNSPFLXADS1	$ 11,303		$ 245.86	
BSHNFLXADS0	$ 14,127		$ 307.27	
BVHLFLXADS0	$ 11,623	$ 2,395	$ 252.82	$ 52.10
BWLGFLXARS0	$ 7,006		$ 152.39	
CFVLFLXADS0	$ 10,592		$ 230.39	
CHLKFLXARS0	$ 8,736		$ 190.02	
CHSWFLXARS0	$ 7,253		$ 157.76	
CLMTFLXADS0	$ 12,817		$ 278.77	
CLTNFLXARS0	$ 14,785		$ 321.59	
CPCRFLXADS0	$ 7,661		$ 166.63	
CPCRFLXBDS1	$ 8,762		$ 190.58	
CPHZFLXADS0	$ 13,451		$ 292.56	
CRRVFLXADS0	$ 16,024		$ 348.53	
CRVWFLXADS0	$ 12,564		$ 273.27	
CSLBFLXADS1	$ 9,640		$ 209.68	
CTDLFLXARS0	$ 8,336		$ 181.32	
CYLKFLXADS0	$ 9,235		$ 200.88	
CYLKFLXBRS0	$ 9,002	$ 3,334	$ 195.79	$ 72.51
DDCYFLXADS1	$ 13,272		$ 288.67	
DESTFLXADS0	$ 8,431		$ 183.37	
DFSPFLXADS0	$ 11,526		$ 250.71	
ESTSFLXADS0	$ 12,065		$ 262.42	
EVRGFLXARS0	$ 18,199		$ 395.84	
FRPTFLXARS0	$ 10,349		$ 225.09	
FTMBFLXADS0	$ 15,578		$ 338.83	
FTMDFLXARS0	$ 8,232		$ 179.05	
FTMYFLXADS0	$ 7,383	$ 500	$ 160.60	$ 10.87
FTMYFLXBDS0	$ 10,453		$ 227.36	
FTMYFLXCDS2	$ 8,920	$ 794	$ 194.03	$ 17.27
FTWBFLXADS0	$ 7,088	$ 436	$ 154.17	$ 9.47
FTWBFLXBDS0	$ 9,289	$ 733	$ 202.04	$ 15.93
FTWBFLXCRS0	$ 9,297		$ 202.23	
GDRGFLXADS0	$ 10,331		$ 224.71	
GLDLFLXARS0	$ 9,980		$ 217.07	
GLGCFLXADS0	$ 12,288	$ 1,231	$ 267.28	$ 26.77
GLRDFLXADS0	$ 7,203	$ 900	$ 156.67	$ 19.58
GNVLFLXARS0	$ 11,214		$ 243.91	
GNWDFLXARS0	$ 6,755		$ 146.93	
GVLDFLXARS0	$ 11,699		$ 254.47	
HMSPFLXARS0	$ 9,808		$ 213.32	
HOWYFLXARS0	$ 9,155		$ 199.12	
IMKLFLXARS0	$ 13,683		$ 297.61	
INVRFLXADS0	$ 13,552		$ 294.76	
KGLKFLXARS0	$ 5,770		$ 125.50	

	Investment Per Fiber		Cost Per Fiber	
Wire Center	Feeder	Distribution	Feeder	Distribution
KNVLFLXARS0	$ 12,868		$ 279.89	
KSSMFLXADS0	$ 11,450	$ 1,574	$ 249.05	$ 34.23
KSSMFLXBDS1	$ 14,625	$ 2,963	$ 318.11	$ 64.45
KSSMFLXDRS0	$ 8,092		$ 176.00	
LBLLFLXADS0	$ 13,487		$ 293.34	
LDLKFLXADS0	$ 12,292		$ 267.36	
LEE FLXARS0	$ 10,010		$ 217.72	
LHACFLXADS0	$ 9,959		$ 216.61	
LKBRFLXADS1	$ 8,955	$ 1,120	$ 194.78	$ 24.36
LKHLFLXARS0	$ 10,114		$ 219.99	
LKPCFLXARS0	$ 14,195		$ 308.75	
LSBGFLXADS1	$ 11,105		$ 241.55	
LWTYFLXARS0	$ 8,405		$ 182.82	
MALNFLXARS0	$ 8,341		$ 181.42	
MDSNFLXADS0	$ 9,017		$ 196.13	
MNTIFLXADS0	$ 13,064		$ 284.14	
MOISFLXADS0	$ 8,855		$ 192.60	
MRHNFLXARS0	$ 13,749		$ 299.06	
MRNNFLXADS0	$ 12,349		$ 268.59	
MTDRFLXADS0	$ 9,963		$ 216.71	
MTLDFLXADS1	$ 3,180	$ 526	$ 69.16	$ 11.43
MTVRFLXARS0	$ 9,165		$ 199.34	
NFMYFLXADS0	$ 8,804		$ 191.49	
NFMYFLXBDS0	$ 12,628	$ 624	$ 274.68	$ 13.57
NNPLFLXADS1	$ 6,734	$ 1,362	$ 146.47	$ 29.62
NPLSFLXCDS0	$ 10,913		$ 237.36	
NPLSFLXDDS0	$ 7,568	$ 375	$ 164.60	$ 8.15
OCALFLXADS0	$ 11,112	$ 1,608	$ 241.69	$ 34.98
OCALFLXBDS0	$ 16,786	$ 924	$ 365.11	$ 20.10
OCALFLXCRS0	$ 8,628		$ 187.67	
OCNFFLXARS0	$ 12,259		$ 266.64	
OKCBFLXADS0	$ 17,331		$ 376.96	
OKLWFLXADS0	$ 12,217		$ 265.73	
ORCYFLXADS0	$ 8,279		$ 180.07	
ORCYFLXCRS0	$ 8,203		$ 178.41	
PANCFLXARS0	$ 8,595		$ 186.94	
PNGRFLXADS1	$ 13,127		$ 285.53	
PNISFLXADS0	$ 9,276		$ 201.75	
PNLNFLXARS0	$ 8,916		$ 193.92	
PTCTFLXADS0	$ 9,497		$ 206.58	
RYHLFLXARS0	$ 11,267		$ 245.06	
SBNGFLXADS1	$ 10,581		$ 230.15	
SGBHFLXARS0	$ 10,581		$ 230.15	
SHLMFLXADS0	$ 2,720		$ 59.17	
SLHLFLXARS0	$ 11,523		$ 250.64	
SNANFLXARS0	$ 11,403		$ 248.01	
SNDSFLXARS0	$ 9,150		$ 199.03	
SNISFLXADS0	$ 11,682		$ 254.09	
SNRSFLXARS0	$ 7,816		$ 169.99	
SPCPFLXADS0	$ 9,643		$ 209.75	
SSPRFLXARS0	$ 7,782		$ 169.26	
STCDFLXADS0	$ 16,283		$ 354.18	
STMKFLXARS0	$ 8,652		$ 188.18	
STRKFLXADS0	$ 11,597		$ 252.24	
SVSPFLXARS0	$ 15,263		$ 331.97	
SVSSFLXARS0	$ 9,428		$ 205.07	
TLCHFLXARS0	$ 9,147		$ 198.96	
TLHSFLXADS0	$ 2,154	$ 532	$ 46.84	$ 11.57
TLHSFLXBDS0	$ 8,640	$ 765	$ 187.93	$ 16.65
TLHSFLXCDS0	$ 12,833	$ 659	$ 279.13	$ 14.34
TLHSFLXDDS0	$ 13,013	$ 616	$ 283.04	$ 13.39

	Investment Per Fiber		Cost Per Fiber	
Wire Center	Feeder	Distribution	Feeder	Distribution
TLHSFLXEDS0	$ 1,360		$ 29.58	
TLHSFLXFDS0	$ 11,097		$ 241.37	
TLHSFLXGDS0	$ 11,046		$ 240.27	
TLHSFLXHDS0	$ 7,187		$ 156.32	
TVRSFLXADS0	$ 11,021	$ 512	$ 239.72	$ 11.14
UMTLFLXARS0	$ 12,489		$ 271.65	
VLPRFLXADS0	$ 9,097		$ 197.86	
VLPRFLXBRS0	$ 18,275		$ 397.48	
WCHLFLXADS0	$ 11,346		$ 246.79	
WLSTFLXARS0	$ 13,261		$ 288.43	
WLWDFLXARS0	$ 11,834		$ 257.40	
WNDRFLXARS0	$ 11,482		$ 249.73	
WNGRFLXADS0	$ 9,557		$ 207.87	
WNPKFLXADS1	$ 6,738	$ 571	$ 146.56	$ 12.41
WSTVFLXARS0	$ 9,585		$ 208.47	
ZLSPFLXARS0	$ 11,350		$ 246.88	

DARK FIBER

Wire Center	Distribution Cost Per Fiber	Number of Existing DS3s
APPKFLXADS1	$ 45.69	3
BVHLFLXADS0	$ 52.10	4
CYLKFLXBRS0	$ 72.51	1
FTMYFLXADS0	$ 10.87	8
FTMYFLXCDS2	$ 17.27	88
FTWBFLXADS0	$ 9.47	1
FTWBFLXBDS0	$ 15.93	1
GLGCFLXADS0	$ 26.77	2
GLRDFLXADS0	$ 19.58	3
KSSMFLXADS0	$ 34.23	1
KSSMFLXBDS1	$ 64.45	1
LKBRFLXADS1	$ 24.36	3
MTLDFLXADS1	$ 11.43	18
NFMYFLXBDS0	$ 13.57	1
NNPLFLXADS1	$ 29.62	1
NPLSFLXDDS0	$ 8.15	1
OCALFLXADS0	$ 34.98	1
OCALFLXBDS0	$ 20.10	1
TLHSFLXADS0	$ 11.57	76
TLHSFLXBDS0	$ 16.65	2
TLHSFLXCDS0	$ 14.34	3
TLHSFLXDDS0	$ 13.39	2
TVRSFLXADS0	$ 11.14	3
WNPKFLXADS1	$ 12.41	26
Average	**$ 24.61**	

Additional Dark Fiber Monthly Recurring Charges

State / Jurisdiction: **Florida**

A	B	C	D	E	F	G	H	I	J	K	L	M	M	O	P	Q
Ln#																
12						Total Utilized										
13	**Material Description**	**Units Required**	**Util.**	**Fiber Capacity**	**Material Cost**	**Unit Material Cost Per Fiber**	**Tax @ 6.59%**	**Lab. Hrs Per Fiber**	**Loaded Labor @ $ 43.19**	**Eng. Hrs Per Fiber**	**Loaded Eng. @ $ 43.09**	**Utilized EF&I Investment**	**ACF**	**Monthly Cost Per Fiber**	**Common Cost**	**Monthly Price**
14		Input	Input	Input	Input	=(F*C/D/E)	=(G*H13)	Input	=(I*J13)	Input	=(K*L13)	=G+H+J+L		=M*N/12		
15	**Fiber Patch Cord***															
16	Ultra FCPC-to-FCPC 50 Meter	1.00	1.00	1.00								$35.25	25.95%	$ 0.76	15%	$ 0.88
17	**Fiber Patch Panel****															
18	72 Fiber Angled Panel Housing equipped with 72 FC Sleeves installed	1.00	0.70	72.00								$32.84	32.37%	$ 0.89	15%	$ 1.02

* Include a Patch Cord at every collocated office.
* Include a Patch Cord at every intermediate office the fiber passes through.

** Include (2) Patch Panel Positions at every intermediate office.
** Include (1) Patch Panel Position at the originating and terminating office when CLEC is collocated.

Redacted

HIGH CAPACITY LOOPS
COST STUDY – METHODS

Sprint Florida, Inc.

Docket No. 990649-TP

April 30, 2000

HIGH CAPACITY LOOPS
COST STUDY - METHODS

Table of Contents

A. Purpose
B. Scope
C. Assumptions
D. Methodology

A. PURPOSE

Determine the cost of providing high capacity loops. Per Order PSC-00-0540-PCO-TP, high capacity loops are defined as DS3 and above. High capacity loops require fiber optic transport and transmission facilities. Sprint's study identifies the necessary network facilities and costs to provide transport and termination of dedicated high capacity loops.

B. SCOPE

This study determines the costs of provisioning high capacity loops. Based on the number of high capacity loops requested to a particular Wire Center and location, economies of scale can be achieved. Sprint's cost study identifies the following logical break points, based on fiber optic terminal economic cost break points and appropriate fill factors, for which costs will vary. Documentation of this study may be found in the worksheets filed for the dark fiber UNE.

Number of DS3s	Terminal Size
• 1-2	OC-3
• 3-9	OC-12
• 10-18	OC-12 (two OC-12s)
• 19-36	OC-48 unidirectional
• 37and up	OC-48 unidirectional (two OC-48s)

In addition, Wire Center specific fiber costs are calculated which recognize the varying cost characteristics based on exchange size, terrain, density, etc.

C. ASSUMPTIONS

1. Use of Fiber Optic facilities is assumed for provisioning High Capacity loops. Based on forward-looking plant design, this consists primarily of shared Fiber Optic feeder facilities; fiber distribution facilities are also required to terminate to each end user location. Use of forward-looking SONET technology and least cost network unit costs are assumed.

2. Current DS3 customer locations in Sprint's local network are used as the basis of deriving unit costs and associated terminal characteristics.

3. Forward-looking network design incorporates the use of common fiber routes serving Digital Loop Carrier Systems (DLCs) and other customers, as applicable, to create the most efficient network design model.

D. METHODOLOGY

A Total Element Long Run Incremental Cost (TELRIC) study methodology was used to identify the cost of high capacity loops. The cost of a high capacity loop is comprised of fiber cost and circuit terminal cost. The costs developed for the dark fiber UNE are the applicable fiber costs for high capote loops. The circuit terminal cost for a high capacity loop consists of common material and labor costs; which include such things as power, fiber patch panels, patch cords, cable racking, and labor; and incremental costs, consisting of the plug-in circuit cards required to provide the site-specific bandwidth requirements.

In order to distribute common costs and ensure cost recovery, Sprint determined appropriate levels of demand by obtaining state-specific data from its Carrier Access Information System (CAIMS) and Customer Record Billing (CRB) systems. The information from these systems allowed identification of Wire Center, service address and circuit quantity information for high capacity loops. This information was geocoded and entered into the Sprint Loop Cost Model (SLCM), which constructs the forward-looking plant design required to support high capacity and other loop demand.

The SLCM results include Wire Center-specific investment based actual demand to each grid location within a Wire Center. The SLCM demand information, audited to ensure separate customer locations are properly identified for terminal count purposes, is used to determine statewide terminal fill factors for high capacity loop demand. A state-wide average level of demand is determined by terminal size. This process is detailed in Schedule A.

The most current vendor pricing available was then used to determine the common material and labor cost of each terminal size: OC-3, OC-12, and OC-48 unidirectional. The common material and labor cost of each terminal size is then distributed over the average fill for the terminal.

The incremental circuit costs would apply based on the specific bandwidth requirements for a particular application. This is recovered via a circuit card charge, which consists of DS3 cards which act as a direct circuit interface to customer owned facilities. Two DS3 interface circuit cards are required per DS3 circuit for OC-3 terminals: one working and one on standby. For OC-12 and larger systems, two DS3 interface circuit cards are required for four or fewer DS3 circuits: one working and one standby. These are referred to as quad cards.

In addition to the interface circuit card, line driver / receivers are required. Each DS3 requires two line driver / receivers: one for incoming and one for outgoing transmission. Each pair of DS3 interface cards are outfitted with a pair of line driver / receivers for each working DS3 provided by the interface card. Therefore, the OC-3 incremental circuit

costs include two line driver / receivers, and the OC-12 and larger systems' incremental circuit costs include eight line driver / receivers.

The cost of each pair of DS3 interface circuit cards, and the necessary number of line drivers / receivers for the entire working interface card, must thus be recovered based on the specific DS3 quantity requested, even though in some cases additional incremental circuit capacity may exist.

For example, if a CLEC requires 6 DS3s to a specific location, an OC-12 system equipped with two pairs of DS3 quad cards is required. The common material and labor cost for an OC-12 system divided by the average fill for an OC-12 system will apply. The circuit terminal costs of two pairs of DS3 quad cards and sixteen line drivers / receivers , providing a total capacity of eight DS3s, will apply.

Schedule B shows the common material and labor cost and circuit terminal card cost calculations specific to recovery of terminal investment only. The resulting terminal investments are applied to Schedule C which identifies expenses, provide investment specific annual charge factors, and applies a reasonable share of common costs to arrive at a monthly cost for each demand break point group. Schedule C shows the common and per circuit card charges; the matrix also includes a cross-reference of the circuit quantities to the appropriate common and incremental circuit charge.

Similar calculations for the fiber costs can be found on the similar worksheet used for the dark fiber UNE. Additional costs must be included to recover the fiber investment associated with each terminal. The SLCM results also include a Wire Center-specific per fiber investment which is based upon the average feeder plus distribution fiber optic cable length required to meet the sample DS3 demand that was geocoded and input into the model. The investment is multiplied by four fibers (required to service each terminal). The total cost result will be a combination of the Wire Center specific fiber costs plus appropriate terminal costs based on specific bandwidth requirements.

High Capacity Loops - Schedule A
Calculation of Typical Terminal Configurations

SWCLLI	FDICODE	Number of DS3s	Required Terminals
APPKFLXADS1	1007499		
	1007499 Total		
BVHLFLXADS0	4006199		
	4006199 Total		
CYLKFLXBRS0	2002199		
	2002199 Total		
FTMYFLXADS0	4006199		
	4006199 Total		
FTMYFLXADS0	4003399		
	4003399 Total		
FTMYFLXADS0	3001299		
	3001299 Total		
FTMYFLXCDS2	1008499		
	1008499 Total		
FTWBFLXADS0	3002299		
	3002299 Total		
FTWBFLXBDS0	3002499		
	3002499 Total		
GLGCFLXADS0	2002199		
	2002199 Total		
GLRDFLXADS0	1007455		
	1007455 Total		
GLRDFLXADS0	4001339		
	4001339 Total		
KSSMFLXADS0	1011454		
	1011454 Total		
KSSMFLXBDS1	2201299		
	2201299 Total		
LKBRFLXADS1	1006299		
	1006299 Total		
MTLDFLXADS1	4003199		
	4003199 Total		
MTLDFLXADS1	4001199		
	4001199 Total		
MTLDFLXADS1	1005499		
	1005499 Total		
MTLDFLXADS1	2001399		
MTLDFLXADS1	2001399		
	2001399 Total		
MTLDFLXADS1	1002299		
MTLDFLXADS1	1002299		
	1002299 Total		

High Capacity Loops - Schedule A
Calculation of Typical Terminal Configurations

SWCLLI	FDICODE	Number of DS3s	Required Terminals
MTLDFLXADS1	1004299		
	1004299 Total		
NFMYFLXBDS0	1001499		
	1001499 Total		
NNPLFLXADS1	4007159		
	4007159 Total		
NPLSFLXDDS0	2010313		
	2010313 Total		
OCALFLXADS0	3002499		
	3002499 Total		
OCALFLXBDS0	3003299		
	3003299 Total		
TLHSFLXADS0	4007399		
TLHSFLXADS0	4007399		
	4007399 Total		
TLHSFLXADS0	4005399		
	4005399 Total		
TLHSFLXADS0	4004336		
	4004336 Total		
TLHSFLXADS0	4001199		
TLHSFLXADS0	4001199		
	4001199 Total		
TLHSFLXADS0	2001399		
	2001399 Total		
TLHSFLXADS0	2002199		
	2002199 Total		
TLHSFLXBDS0	1007265		
	1007265 Total		
TLHSFLXBDS0	1007297		
	1007297 Total		
TLHSFLXCDS0	3005499		
TLHSFLXCDS0	3005499		
	3005499 Total		
TLHSFLXCDS0	3004299		
	3004299 Total		
TLHSFLXDDS0	3004229		
	3004229 Total		
TLHSFLXDDS0	2008339		
	2008339 Total		
TVRSFLXADS0	3102248		
	3102248 Total		
WNPKFLXADS1	1001299		

Redacted

High Capacity Loops - Schedule A
Calculation of Typical Terminal Configurations

SWCLLI	FDICODE	Number of DS3s	Required Terminals
	1001299 Total		
	Grand Total		

Redacted

High Capacity Loops - Schedule A
Average DS3s

Terminal Size	Number of Terminals	Average Number of DS3s per Terminal
OC3		
OC12		
OC48 Uni		

Redacted

High Capacity Loops - Schedule B

Alcatel OC-3 Central Office Terminal (7'-0")
Equipped with 1 DS-3

Matcode	Configuration P/N	Configuration Description	Qty	Unit Price	Unit Extension	Material Price
030464	1603 SMX-COT-01	7 FT frame assembly w/1-RS PDU w frame bus kit				
		(1) 625002-000-008 Fan Panel with Filter				
		(1) 3EM02211AA SLM201 SMX Shelf				
030469	1603 SMX-COM-01	SMX COM-01 includes:				
	600308-393-001	PWR A01 Power Converter	3			
	3AL00124AB	CLK 202 Clock Unit	2			
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	1			
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	2			
020733	3AL00376AB	NEP 402 Network Processor w/ LAN	1			
	3AL00308AA	HIFB01 High Speed OC3 IR 1310nm FC/PC	2			
012270	3EM02991AAAA	HD Coax/Baffle/Fiber Panel	1			
030479	3AL02630ABAC	ADR48 R1.01 Ring Network Software CD ROM	1			
		Total 1603				
030480	1603 SMX-SPR-01	Spares include the following:				
	600308-393-001	PWR A01 Power Converter	0.25			
	3AL00124AB	CLK 202 Clock Unit	0.25			
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	0.25			
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	0.25			
005803	3AL00114AB	625611-000-002 DS1 Floating Drop Interface DMI102	0.25			
005802	625611-000-002	3AL00114AB Virtual Group Interface VTG102(4DS-1's/card)	0.25			
421872	3AL00328AA	LIF701 DS3 Interface	0.25			
012288	3AL00290AA	LDR 101 Line Driver/Receiver	0.25			
		Optional Spares to be added	0.25			
	3AL00308AA	HIFB01 High Speed OC3 IR 1310nm FC/PC	0.25			
		Total Spares				
		DS3 Card Requirements (Necessary to Install any and all DS3 Cards)				
	3EM02075AA	CIOP 401 DS3/STS1 Input/Output Panel	1			
	601303-540-042	Coax Ribbon Cable Assy w/ 8 BNC, 42"	1			
		Total DS3 Card Requirments				
9		Fiber Patch Panel (per fiber)	4			
		Fiber Patch Cord (per fiber)	4			
		Total Cost of Patch Panels and Cords				
		Common Material Costs				
		SNS				
		Common Material Costs w/ SNS				
		Sales Tax				6.59%
		Total Common Material Costs				$ -
		ENGINEERING HOURS				
		OC3 Terminal			41.30	
		Patch Panels (per fiber)	4.0	0.11	0.44	
		Patch Cords (per fiber)	4.0	0.02	0.08	
		Total Engineering Hours per Terminal			41.82	
		Cost of Engineering Labor for Terminal	41.82	43.09	1,802.22	
		INSTALLATION HOURS				
		OC3 Terminal			96.70	
		Patch Panels (per fiber)	4.0	0.22	0.89	
		Patch Cords (per fiber)	4.0	0.03	0.12	
		Total Installation Hours per Terminal			97.71	
		Cost of Installation Labor for Terminal	97.71	43.19	4,220.05	
		Total Cost of OC3 Terminal Engineering and Installation Labor				6,022.26
		Material and Labor				
		MATERIALS AND LABOR ALLOCATED BY AVERAGE NUMBER OF DS3s	0.0			
		DS3/STS1 Interface Card				
421872	3AL00328AA	LIF701 DS3 Interface*	2			
012288	3AL00290AA	LDR 101 Line Driver/Receiver **	2			
		DS3 Interface Card Costs				
		SNS				
		DS3 Interface Card Costs w/ SNS				
		Sales Tax				6.59%
		CARD COST				

* The interface provides 1 DS3. Two cards are needed per DS3: one working and one standby.

** Two line driver / receivers are needed per working DS3.

Redacted

High Capacity Loops - Schedule B

Alcatel OC-12 Central Office Terminal (7'-0")
Equipped with 1 - 4 DS-3s

Matcode	Configuration P/N	Configuration Description	Qty	Unit Price	Unit Extension	Material Price
030464	1603 SMX-COT-01	7 FT frame assembly w/1-RS PDU w frame bus kit (1) 625002-000-008 Fan Panel with Filter (1) 3EM02211AA SLM201 SMX Shelf				
030459	1603 SMX-COM-01	SMX COM-01 includes:				
	600308-393-001	PWR A01 Power Converter	3			
	3AL00124AB	CLK 202 Clock Unit	2			
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	1			
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	2			
020731	3AL00378AA	NEP 401 Network Processor w/ LAN	1			
020653	3AL00238AC	HIF 603 High Speed OC12 IR 1310nm FC/PC	2			
012270	3EM02991AAAA	HD Coax/Baffle/Fiber Panel	1			
030479	3AL02830ABAC	ADR4R R1.01 Ring Network Software CD ROM	1			
	601300-540-042	Coax Ribbon Cable Assy w/ 8 BNC, 42"	1			
		Total 1603				
030480	1603 SMX-SPR-01	**Spares Include the following:**				
	600308-393-001	PWR A01 Power Converter	0.25			
	3AL00124AB	CLK 202 Clock Unit	0.25			
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	0.25			
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	0.25			
005803	3AL00114AB	625611-000-002 DS1 Floating Drop Interface DMI102	0.25			
005802	625611-000-002	3AL00114AB Virtual Group Interface VTG102(4DS-1's/card)	0.25			
012287	3AL00224AC	LIF502 QUAD DS3/STS1 Interface	0.25			
012288	3AL00290AA	LDR 101 Line Driver /Receiver	0.25			
		Optional Spares to be added				
020653	3AL00238AC	HIF 603 High Speed OC12 IR 1310nm FC/PC	0.25			
		Total Spares				
		DS3 Card Requirements (Necessary to install any and all DS3 Cards)				
	3EM02075AA	CIOP 401 DS3/STS1 Input/Output Panel	1			
		Total DS3 Card Requirments				
		Fiber Patch Panel (per fiber)	4			
		Fiber Patch Cord (per fiber)	4			
		Total Cost of Patch Panels and Cords				
		Common Material Costs				
		SNS				
		Common Material Costs w/ SNS				
		Sales Tax				6.59%
		Total Common Material Costs				
		ENGINEERING HOURS				
		OC12 Terminal			41.80	
		Patch Panels (per fiber)	4.0	0.11	0.44	
		Patch Cords (per fiber)	4.0	0.02	0.08	
		Total Engineering Hours per Terminal			41.82	
		Cost of Engineering Labor for Terminal	41.82	43.09	1,802.22	
		INSTALLATION HOURS				
		OC12 Terminal			96.70	
		Patch Panels (per fiber)	4.0	0.22	0.89	
		Patch Cords (per fiber)	4.0	0.03	0.12	
		Total Installation Hours per Terminal			97.71	
		Cost of Installation Labor for Terminal	97.71	43.19	4,220.86	
		Total Cost of OC12 Terminal Engineering and Installation Labor				6,022.26
		Material and Labor				
		MATERIALS AND LABOR ALLOCATED BY AVERAGE NUMBER OF DS3	0.0			
		DS3/STS1 Quad Interface Cards				
012287	3AL00224AC	LIF502 QUAD DS3/STS1 Interface *	2			
012288	3AL00290AA	LDR 101 Line Driver /Receiver **	8			
		Cost for DS3 Quad Interface Card				
		SNS				
		DS3 Quad Interface Card Costs w/ SNS				
		Sales Tax				6.59%
		CARD COST				

* 1 to 4 DS3s require two line interfaces: one working, one back-up

** 2 line drivers / receivers per DS3 Quad Card

High Capacity Loops - Schedule B

Alcatel OC-48 Central Office Terminal (7'-0")
Equipped with 1 - 4 DS-3s

Matcode	Configuration P/N	Configuration Description	Qty	Unit Price	Unit Extension	Material Price
030464	1603 SMX-COT-01	7 FT frame assembly w/1-RS PDU w frame bus kit				
		(1) 625002-000-008 Fan Panel with Filter				
		(1) 3EM02211AA SLM201 SMX Shelf				
030469	1603 SMX-COM-01	SMX COM-01 includes:				
	600308-393-001	PWR A01 Power Converter	3			
	3AL00124AB	CLK 202 Clock Unit	2			
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	1			
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	2			
030471	3AL00378AF	NEP 603 Network Processor w/o LAN	1			
030476	3AL00336AA	HIF F01 High Speed OC48 IR 1310 nm FC/PC	2			
012270	3EM02991AAAA	HD Coax/Baffle/Fiber Panel	1			
030479	3AL02830ABAC	ADR48 R1.01 Ring Network Software CD ROM	1			
016155	3EM02079AA	LIF D01 12xDS3/STS1 Low Speed Interface	4			
	3EM02065AA	LDR 501 Dual DS-3/STS1 Line Driver	12			
	3EM02075AA	CIOP 401 DS3/STS1 Input/Output Panel	1			
	3AL00xxxAA	Quad OC3/OC12 interface, FC/PC	2			
		Total 1603				
030480	1603 SMX-SPR-01	Spares include the following:				
	600308-393-001	PWR A01 Power Converter	0.25			
	3AL00124AB	CLK 202 Clock Unit	0.25			
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	0.25			
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	0.25			
012287	3AL00224AC	LIF502 QUAD DS3/STS1 Interface	0.25			
012288	3AL00290AA	LDR 101 Line Driver /Receiver	0.25			
	3AL00xxxAA	Quad OC3/OC12 interface, FC/PC (4 OC3s or OC12s per card)	0.25			
		Optional Spares to be added				
030476	3AL00336AA	HIF F01 High Speed OC48 IR 1310 nm FC/PC	25			
		Total Spares				
		DS3 Card Requirements (Necessary to Install any and all DS3 Cards)				
	3EM02075AA	CIOP 401 DS3/STS1 Input/Output Panel	1			
		Total DS3 Card Requirments				
		Fiber Patch Panel (per fiber)	4			
		Fiber Patch Cord (per fiber)	4			
		Total Cost of Patch Panels and Cords				
		Common Material Costs				
		SNS				
		Common Material Costs w/ SNS				
		Sales Tax				6.59%
		Total Common Material Costs				
		ENGINEERING HOURS				
		OC48 A 2 Fiber Unidirectional Terminal			41.30	
		Patch Panels (per fiber)	4.0	0.11	0.44	
		Patch Cords (per fiber)	4.0	0.02	0.08	
		Total Engineering Hours per Terminal			41.82	
		Cost of Engineering Labor for Terminal	41.82	43.00	1,802.22	
		INSTALLATION HOURS				
		OC48 A 2 Fiber Unidirectional Terminal			96.70	
		Patch Panels (per fiber)	4.0	0.22	0.89	
		Patch Cords (per fiber)	4.0	0.03	0.12	
		Total Installation Hours per Terminal			97.71	
		Cost of Installation Labor for Terminal	97.71	42.19	4,220.05	
		Total Cost of OC12 Terminal Engineering and Installation Labor				6,022.26
		Materials and Labor				
		MATERIALS AND LABOR ALLOCATED BY AVERAGE NUMBER OF DS3s	0.0			
		DS3/STS1 Quad Interface Cards				
012287	3AL00224AC	LIF502 QUAD DS3/STS1 Interface*	2			
012288	3AL00290AA	LDR 101 Line Driver /Receiver**	8			
		Cost for DS3 Quad Interface Card				
		SNS				
		DS3 Quad Interface Card Costs w/ SNS				
		Sales Tax				6.59%
		CARD COST				

* 1 to 4 DS3s require two line interfaces: one working, one back-up.

** 2 line drivers / receivers per DS3 Quad Card.

Redacted

High Capacity Loops - Schedule B

Seicor Fiber Patch Panel

Item	Configuration P/N.	Configuration Description	Qty	Unit Price	Material Price
968311	ACH-72-11	72 Fiber Angled Panel Housing equipped with: 72 FC Sleeves intalled	1		
		TOTAL MATERIAL 70% Utilization			
		Material per fiber			
		ENGINEERING HOURS	8		
		per fiber	0.11		
		INSTALLATION HOURS	16		
		per fiber	0.22		

Seicor Fiber Patch Cord

Mat Code	Configuration P/N.	Configuration Description	Qty	Unit Price	Material Price
964081	545401R3131050M	Ultra FCPC-to-FCPC 50 Meter	1		
		TOTAL MATERIAL			
		ENGINEERING HOURS	0.02		
		INSTALLATION HOURS	0.03		

Note: Fiber tip cables can be ordered in a variety of lengths.
This jumper represents the median cost of the family of cables.

Redacted

High Capacity Loops - Schedule B
Labor Rates

Engineering Labor Rate:	**$43.09**
Engineering Labor Rate:	**$43.19**
Sales Tax:	**6.59%**

High Capacity Loops - Schedule C
Cost Development Worksheet

		Source	OC 3		OC 12		OC 48 Two Fiber Unidirectional	
			Common Terminal	DS3 Card	Common Terminal	DS3 Card	Common Terminal	DS3 Card
1	**Investment - Loop Circuit Equipment**		$ 25,130	$ 2,282	$ 6,630	$ 5,288	$ 2,398	$ 5,288
2	Annual Charge Factor - Loop Circuit Equipment	ACF Tab Volume 1	27.24%	27.24%	27.24%	27.24%	27.24%	27.24%
3	Annual Cost - Loop Circuit Equipment	L1 X L2	$6,845.39	$621.54	$1,806.14	$1,440.38	$653.14	$1,440.38
4	Other Direct Expense Factor	ODC Tab Volume 1	2.24%	2.24%	2.24%	2.24%	2.24%	2.24%
5	Other Direct Expense	L1 X L4	$ 562.91	$ 51.11	$ 148.52	$ 118.45	$ 53.71	$ 118.45
6	**Annual Cost with ODE- Loop Circuit Equipment**	L3 + L5	$ 7,408.30	$ 672.65	$ 1,954.66	$ 1,558.83	$ 706.85	$ 1,558.83
7	Common Cost Factor	ODC Tab Volume 1	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
8	Common Cost	L7 X L6	$ 1,111.25	$ 100.90	$ 293.20	$ 233.82	$ 106.03	$ 233.82
9	**Total Annual Cost - Loop Circuit Equipment**	**L6 + L8**	**$ 8,519.55**	**$ 773.55**	**$ 2,247.86**	**$ 1,792.65**	**$ 812.87**	**$ 1,792.65**

See dark fiber section for loop cost

High Capacity Loops - Schedule C
Summary

A	B	C	D	E	F	G
						(C + E) * (1 + F)
Required Terminals	# of DS3s Required	Common Material & Labor Investment	# of DS3 Card Pairs	Card Investment	Common Cost Factor	TELRIC Price
OC-3	1	$ 8,519.55	1	$ 773.55	15.00%	$ 10,687.06
	2	17,039.09	2	1,547.10	15.00%	21,374.13
OC-12	3	$ 6,743.58	1	$ 1,792.65	15.00%	$ 9,816.67
	4	8,991.44	1	1,792.65	15.00%	12,401.71
	5	11,239.30	2	3,585.30	15.00%	17,048.29
	6	13,487.16	2	3,585.30	15.00%	19,633.33
	7	15,735.02	2	3,585.30	15.00%	22,218.37
	8	17,982.89	2	3,585.30	15.00%	24,803.41
	9	20,230.75	3	5,377.95	15.00%	29,450.00
OC-12 (2 terminals)	10	$ 22,478.61	3	$ 5,377.95	15.00%	$ 32,035.04
	11	24,726.47	3	5,377.95	15.00%	34,620.08
	12	26,974.33	3	5,377.95	15.00%	37,205.12
	13	29,222.19	4	7,170.60	15.00%	41,851.70
	14	31,470.05	4	7,170.60	15.00%	44,436.74
	15	33,717.91	4	7,170.60	15.00%	47,021.78
	16	35,965.77	4	7,170.60	15.00%	49,606.82
	17	38,213.63	5	8,963.24	15.00%	54,253.41
	18	40,461.49	5	8,963.24	15.00%	56,838.45
OC-48	19	$ 15,444.58	5	$ 8,963.24	15.00%	$ 28,069.00
	20	16,257.45	5	8,963.24	15.00%	29,003.80
	21	17,070.33	6	10,755.89	15.00%	32,000.15
	22	17,883.20	6	10,755.89	15.00%	32,934.96
	23	18,696.07	6	10,755.89	15.00%	33,869.76
	24	19,508.94	6	10,755.89	15.00%	34,804.56
	25	20,321.82	7	12,548.54	15.00%	37,800.91
	26	21,134.69	7	12,548.54	15.00%	38,735.72
	27	21,947.56	7	12,548.54	15.00%	39,670.52
	28	22,760.43	7	12,548.54	15.00%	40,605.32
	29	23,573.31	8	14,341.19	15.00%	43,601.67
	30	24,386.18	8	14,341.19	15.00%	44,536.48
	31	25,199.05	8	14,341.19	15.00%	45,471.28
	32	26,011.93	8	14,341.19	15.00%	46,406.08
	33	26,824.80	9	16,133.84	15.00%	49,402.43
	34	27,637.67	9	16,133.84	15.00%	50,337.24
	35	28,450.54	9	16,133.84	15.00%	51,272.04
	36	29,263.42	9	16,133.84	15.00%	52,206.84
OC-48 (2 terminals)	37	$ 30,076.29	10	$ 17,926.49	15.00%	$ 55,203.19
	38	30,889.16	11	19,719.14	15.00%	58,199.54
	39	31,702.03	12	21,511.79	15.00%	61,195.89
	40	32,514.91	13	23,304.44	15.00%	64,192.24
	41	33,327.78	14	25,097.09	15.00%	67,188.59
	42	34,140.65	15	26,889.73	15.00%	70,184.94
	43	34,953.52	16	28,682.38	15.00%	73,181.29
	44	35,766.40	17	30,475.03	15.00%	76,177.64
	45	36,579.27	18	32,267.68	15.00%	79,173.99
	46	37,392.14	19	34,060.33	15.00%	82,170.34
	47	38,205.01	20	35,852.98	15.00%	85,166.69
	48	39,017.89	21	37,645.63	15.00%	88,163.04
	49	39,830.76	22	39,438.28	15.00%	91,159.39
	50	40,643.63	23	41,230.93	15.00%	94,155.74
	51	41,456.51	24	43,023.57	15.00%	97,152.09
	52	42,269.38	25	44,816.22	15.00%	100,148.44
	53	43,082.25	26	46,608.87	15.00%	103,144.79
	54	43,895.12	27	48,401.52	15.00%	106,141.14
	55	44,708.00	28	50,194.17	15.00%	109,137.49
	56	45,520.87	29	51,986.82	15.00%	112,133.84
	57	46,333.74	30	53,779.47	15.00%	115,130.19
	58	47,146.61	31	55,572.12	15.00%	118,126.54
	59	47,959.49	32	57,364.77	15.00%	121,122.89
	60	48,772.36	33	59,157.42	15.00%	124,119.24
	61	49,585.23	34	60,950.06	15.00%	127,115.59
	62	50,398.10	35	62,742.71	15.00%	130,111.94
	63	51,210.98	36	64,535.36	15.00%	133,108.29
	64	52,023.85	37	66,328.01	15.00%	136,104.64
	65	52,836.72	38	68,120.66	15.00%	139,100.99
	66	53,649.60	39	69,913.31	15.00%	142,097.34
	67	54,462.47	40	71,705.96	15.00%	145,093.69
	68	55,275.34	41	73,498.61	15.00%	148,090.04
	69	56,088.21	42	75,291.26	15.00%	151,086.39
	70	56,901.09	43	77,083.90	15.00%	154,082.74
	71	57,713.96	44	78,876.55	15.00%	157,079.09
	72	58,526.83	45	80,669.20	15.00%	160,075.44

DIGITAL PBX TRUNK PORT
COST STUDY - METHODS

Sprint Florida, Inc.

May 1, 2000

DIGITAL PBX TRUNK PORT COST STUDY - METHODS

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A. Purpose
B. Scope
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A. Purpose

The purpose of the Digital PBX Trunk Port cost study is to determine the TELRIC of a DS1 PBX Trunk Port. The trunk connection-DID allows calls to be terminated to a specific station. Multiline hunting allows for dialtone for outgoing telephone calls.

B. Scope

The cost results were developed specifically for the Sprint Florida serving area and apply only in Florida.

C. Methodology

The TELRIC of the DS1 Digital PBX trunk port accounts for investment requirements for Direct Inward Dialing (DID) and Multiline hunt capabilities, which allows a station within the PBX system to make and receive calls. Investment for DID was obtained from SCIS. A power additive for DS1s, based on line counts for the wire center, was applied to the DID investment. Multiline hunt investment was obtained from SCIS and added to the total DID investment, which results in total material investment. Engineering labor per port was added to the material to obtain total investment. The total investment was then multiplied times the annual charge factor (ACF) to obtain annual cost recovery requirements. Annual cost was then divided by twelve to obtain monthly costs. Common cost was then applied to exchange specific costs which results in exchange specific prices.

D. Digital PBX Trunk Port Cost Study Results

DIGITAL PBX TRUNK PORT

Trunk Connection-DID allows calls to be terminated to a specific station. Multiline Hunt allows for dialtone for outgoing calls.

A	B	C	D	E = C + 1*D	F	G = E + F	H	I	J = ((G+ H)*I /) 12	K	L = J * K
		SCIS DID	Power Per DS1 Calculations Host/Remotes	DID+Pwr Add	SCIS Multiline Hunt	Port Related Investment+Pwr	C.O. Engineering	ACF	Monthly Port Exp.	Common Factor	TELRIC Cost
Cypress LakeD100		$ 5,095.68	0.07	5,437.49	$ 2.70	$ 5,440.19	$ 43.09	33.38%	$ 152.53	1.15000	$ 175.41
OcalaD100		$ 5,095.68	0.08	5,490.05	$ 2.70	$ 5,492.75	$ 43.09	33.38%	$ 153.99	1.15000	$ 177.09
Naples MooringsD100		$ 5,095.68	0.09	5,564.67	$ 2.70	$ 5,567.37	$ 43.09	33.38%	$ 156.06	1.15000	$ 179.47
WNPKAltamonte SpringsD100		$ 5,095.68	0.09	5,576.11	$ 2.70	$ 5,578.81	$ 43.09	33.38%	$ 156.38	1.15000	$ 179.84
North NaplesD100		$ 5,095.68	0.10	5,588.27	$ 2.70	$ 5,590.97	$ 43.09	33.38%	$ 156.72	1.15000	$ 180.23
WNPKGoldenrodD100		$ 5,095.68	0.10	5,602.46	$ 2.70	$ 5,605.16	$ 43.09	33.38%	$ 157.12	1.15000	$ 180.68
Winter ParkD100		$ 5,095.68	0.10	5,603.34	$ 2.70	$ 5,606.04	$ 43.09	33.38%	$ 157.14	1.15000	$ 180.71
WNPKLk.BrantleyD100		$ 5,095.68	0.10	5,630.20	$ 2.70	$ 5,632.90	$ 43.09	33.38%	$ 157.89	1.15000	$ 181.57
TallyCalhoun599D100		$ 5,095.68	0.11	5,672.32	$ 2.70	$ 5,675.02	$ 43.09	33.38%	$ 159.06	1.15000	$ 182.92
Ft. MyersD100		$ 5,095.68	0.12	5,686.26	$ 2.70	$ 5,688.96	$ 43.09	33.38%	$ 159.45	1.15000	$ 183.36
Reedy CreekD100		$ 5,095.68	0.12	5,689.38	$ 2.70	$ 5,692.08	$ 43.09	33.38%	$ 159.53	1.15000	$ 183.46
N. Ft. MyersD100		$ 5,095.68	0.12	5,718.67	$ 2.70	$ 5,721.37	$ 43.09	33.38%	$ 160.35	1.15000	$ 184.40
Belleviewd100		$ 5,095.68	0.12	5,725.07	$ 2.70	$ 5,727.77	$ 43.09	33.38%	$ 160.53	1.15000	$ 184.61
Avon Parkd100/200		$ 5,095.68	0.12	5,729.52	$ 2.70	$ 5,732.22	$ 43.09	33.38%	$ 160.65	1.15000	$ 184.75
TallyBlairstone877D100		$ 5,095.68	0.13	5,759.83	$ 2.70	$ 5,762.53	$ 43.09	33.38%	$ 161.49	1.15000	$ 185.72
ApopkaD100		$ 5,095.68	0.13	5,775.88	$ 2.70	$ 5,778.58	$ 43.09	33.38%	$ 161.94	1.15000	$ 186.23
DentinD100		$ 5,095.68	0.13	5,780.66	$ 2.70	$ 5,783.36	$ 43.09	33.38%	$ 162.07	1.15000	$ 186.38
WNPKCasselberryD100		$ 5,095.68	0.13	5,781.53	$ 2.70	$ 5,784.23	$ 43.09	33.38%	$ 162.10	1.15000	$ 186.41
TallyCalhoun222D100		$ 5,095.68	0.14	5,788.32	$ 2.70	$ 5,791.02	$ 43.09	33.38%	$ 162.29	1.15000	$ 186.63
ClermontD100		$ 5,095.68	0.14	5,798.50	$ 2.70	$ 5,801.20	$ 43.09	33.38%	$ 162.57	1.15000	$ 186.95
DestinD100		$ 5,095.68	0.14	5,806.42	$ 2.70	$ 5,809.12	$ 43.09	33.38%	$ 162.79	1.15000	$ 187.21
	Lake Placid	$ 5,095.68	0.15	5,842.02	$ 2.70	$ 5,844.72	$ 43.09	33.38%	$ 163.78	1.15000	$ 188.35
	Spring Lake Hills	$ 5,095.68	0.15	5,842.02	$ 2.70	$ 5,844.72	$ 43.09	33.38%	$ 163.78	1.15000	$ 188.35
LeesburgD100		$ 5,095.68	0.15	5,846.82	$ 2.70	$ 5,849.52	$ 43.09	33.38%	$ 163.91	1.15000	$ 188.50
ValparaisoD100		$ 5,095.68	0.15	5,858.47	$ 2.70	$ 5,861.17	$ 43.09	33.38%	$ 164.24	1.15000	$ 188.87
Lehigh Acres D100		$ 5,095.68	0.15	5,862.65	$ 2.70	$ 5,865.35	$ 43.09	33.38%	$ 164.35	1.15000	$ 189.01
Orange CityD100		$ 5,095.68	0.15	5,872.11	$ 2.70	$ 5,874.81	$ 43.09	33.38%	$ 164.62	1.15000	$ 189.31
Shady Road		$ 5,095.68	0.15	5,877.00	$ 2.70	$ 5,879.70	$ 43.09	33.38%	$ 164.75	1.15000	$ 189.47
Ft. Walton Beach-243-D100/200		$ 5,095.68	0.19	6,043.23	$ 2.70	$ 6,045.93	$ 43.09	33.38%	$ 169.38	1.15000	$ 194.78
CrestviewD100/200		$ 5,095.68	0.20	6,096.17	$ 2.70	$ 6,098.87	$ 43.09	33.38%	$ 170.85	1.15000	$ 196.48
	Bowling Green	$ 5,095.68	0.20	6,102.46	$ 2.70	$ 6,105.16	$ 43.09	33.38%	$ 171.02	1.15000	$ 196.68
	Ft. Meade	$ 5,095.68	0.20	6,102.46	$ 2.70	$ 6,105.16	$ 43.09	33.38%	$ 171.02	1.15000	$ 196.68
	Clewiston	$ 5,095.68	0.20	6,120.29	$ 2.70	$ 6,122.99	$ 43.09	33.38%	$ 171.52	1.15000	$ 197.25
	Moore Haven	$ 5,095.68	0.20	6,120.29	$ 2.70	$ 6,122.99	$ 43.09	33.38%	$ 171.52	1.15000	$ 197.25
WNPKMaitlandParkD100		$ 5,095.68	0.20	6,122.80	$ 2.70	$ 6,125.50	$ 43.09	33.38%	$ 171.59	1.15000	$ 197.33
TallyMabry575D100		$ 5,095.68	0.21	6,146.53	$ 2.70	$ 6,149.23	$ 43.09	33.38%	$ 172.25	1.15000	$ 198.09
TavaresD100		$ 5,095.68	0.21	6,160.86	$ 2.70	$ 6,163.56	$ 43.09	33.38%	$ 172.65	1.15000	$ 198.55
TallyWoodvilleD10		$ 5,095.68	0.21	6,179.12	$ 2.70	$ 6,181.82	$ 43.09	33.38%	$ 173.16	1.15000	$ 199.13
SebringD100		$ 5,095.68	0.21	6,187.60	$ 2.70	$ 6,190.30	$ 43.09	33.38%	$ 173.39	1.15000	$ 199.40
Cape HazeD100		$ 5,095.68	0.21	6,189.83	$ 2.70	$ 6,192.53	$ 43.09	33.38%	$ 173.45	1.15000	$ 199.47
	Santa Rosa Beach	$ 5,095.68	0.23	6,292.17	$ 2.70	$ 6,294.87	$ 43.09	33.38%	$ 176.30	1.15000	$ 202.75

DIGITAL PBX TRUNK PORT

Trunk Connection-DID allows calls to be terminated to a specific station. Multiline Hunt allows for dialtone for outgoing calls.

A	B	C	D	E = C + 1*D	F	G = E + F	H	I	J = ((G+ H)*I /) 12	K	L = J * K
		SCIS DID	Power Per DS1 Calculations Host/Remotes	DID+Pwr Add	SCIS Multiline Hunt	Port Related Investment+Pwr	C.O. Engineering	ACF	Monthly Port Exp.	Common Factor	TELRIC Cost
	Seagrove Beach	$ 5,095.68	0.23	6,292.17	$ 2.70	$ 6,294.87	$ 43.09	33.38%	$ 176.30	1.15000	$ 202.75
	Howey	$ 5,095.68	0.24	6,295.23	$ 2.70	$ 6,297.93	$ 43.09	33.38%	$ 176.39	1.15000	$ 202.84
	Wildwood	$ 5,095.68	0.24	6,295.23	$ 2.70	$ 6,297.93	$ 43.09	33.38%	$ 176.39	1.15000	$ 202.84
	Bonifay	$ 5,095.68	0.24	6,312.32	$ 2.70	$ 6,315.02	$ 43.09	33.38%	$ 176.86	1.15000	$ 203.39
	Malone	$ 5,095.68	0.24	6,312.32	$ 2.70	$ 6,315.02	$ 43.09	33.38%	$ 176.86	1.15000	$ 203.39
	Reynolds Hill	$ 5,095.68	0.24	6,312.32	$ 2.70	$ 6,315.02	$ 43.09	33.38%	$ 176.86	1.15000	$ 203.39
	Sneads	$ 5,095.68	0.24	6,312.32	$ 2.70	$ 6,315.02	$ 43.09	33.38%	$ 176.86	1.15000	$ 203.39
	Westville	$ 5,095.68	0.24	6,312.32	$ 2.70	$ 6,315.02	$ 43.09	33.38%	$ 176.86	1.15000	$ 203.39
	Homosassa Springs	$ 5,095.68	0.24	6,343.59	$ 2.70	$ 6,346.29	$ 43.09	33.38%	$ 177.73	1.15000	$ 204.39
Dade CityD100		$ 5,095.68	0.25	6,363.43	$ 2.70	$ 6,366.13	$ 43.09	33.38%	$ 178.28	1.15000	$ 205.03
	Astor	$ 5,095.68	0.25	6,370.52	$ 2.70	$ 6,373.22	$ 43.09	33.38%	$ 178.48	1.15000	$ 205.25
	Umatilla	$ 5,095.68	0.25	6,370.52	$ 2.70	$ 6,373.22	$ 43.09	33.38%	$ 178.48	1.15000	$ 205.25
	Windermere	$ 5,095.68	0.25	6,372.33	$ 2.70	$ 6,375.03	$ 43.09	33.38%	$ 178.53	1.15000	$ 205.31
Beverly Hillsd100		$ 5,095.68	0.25	6,373.44	$ 2.70	$ 6,376.14	$ 43.09	33.38%	$ 178.56	1.15000	$ 205.35
TallIyTHomasville893D100		$ 5,095.68	0.26	6,418.51	$ 2.70	$ 6,421.21	$ 43.09	33.38%	$ 179.82	1.15000	$ 206.79
TallyWillisRd385D100		$ 5,095.68	0.26	6,433.25	$ 2.70	$ 6,435.95	$ 43.09	33.38%	$ 180.23	1.15000	$ 207.26
ShalimarD100		$ 5,095.68	0.26	6,443.43	$ 2.70	$ 6,446.13	$ 43.09	33.38%	$ 180.51	1.15000	$ 207.58
MariannaD100/200		$ 5,095.68	0.26	6,444.16	$ 2.70	$ 6,446.86	$ 43.09	33.38%	$ 180.53	1.15000	$ 207.61
TallyPerkinsD100		$ 5,095.68	0.30	6,616.89	$ 2.70	$ 6,619.59	$ 43.09	33.38%	$ 185.33	1.15000	$ 213.13
	San Antonio	$ 5,095.68	0.32	6,703.35	$ 2.70	$ 6,706.05	$ 43.09	33.38%	$ 187.74	1.15000	$ 215.90
	Trilacoochee	$ 5,095.68	0.32	6,703.35	$ 2.70	$ 6,706.05	$ 43.09	33.38%	$ 187.74	1.15000	$ 215.90
StarkeD10		$ 5,095.68	0.32	6,710.65	$ 2.70	$ 6,713.35	$ 43.09	33.38%	$ 187.94	1.15000	$ 216.13
LaBelleD100		$ 5,095.68	0.34	6,852.94	$ 2.70	$ 6,855.64	$ 43.09	33.38%	$ 191.90	1.15000	$ 220.68
	Immokalee	$ 5,095.68	0.35	6,877.18	$ 2.70	$ 6,879.88	$ 43.09	33.38%	$ 192.57	1.15000	$ 221.46
	Silver Springs Shores	$ 5,095.68	0.36	6,930.21	$ 2.70	$ 6,932.91	$ 43.09	33.38%	$ 194.05	1.15000	$ 223.16
	Eustis	$ 5,095.68	0.37	6,989.49	$ 2.70	$ 6,992.19	$ 43.09	33.38%	$ 195.70	1.15000	$ 225.05
	Lady Lake	$ 5,095.68	0.37	6,989.49	$ 2.70	$ 6,992.19	$ 43.09	33.38%	$ 195.70	1.15000	$ 225.05
	Montverde	$ 5,095.68	0.37	6,989.49	$ 2.70	$ 6,992.19	$ 43.09	33.38%	$ 195.70	1.15000	$ 225.05
	Mt. Dora	$ 5,095.68	0.37	6,989.49	$ 2.70	$ 6,992.19	$ 43.09	33.38%	$ 195.70	1.15000	$ 225.05
Bonita Springs5E		$ 5,095.68	0.37	6,995.14	$ 2.70	$ 6,997.84	$ 43.09	33.38%	$ 195.86	1.15000	$ 225.23
	Cherry Lake	$ 5,095.68	0.38	7,047.83	$ 2.70	$ 7,050.53	$ 43.09	33.38%	$ 197.32	1.15000	$ 226.92
	Lee	$ 5,095.68	0.38	7,047.83	$ 2.70	$ 7,050.53	$ 43.09	33.38%	$ 197.32	1.15000	$ 226.92
CrawfordvilleD100		$ 5,095.68	0.38	7,051.01	$ 2.70	$ 7,053.71	$ 43.09	33.38%	$ 197.41	1.15000	$ 227.02
Port Charlotte5E		$ 5,095.68	0.40	7,113.63	$ 2.70	$ 7,116.33	$ 43.09	33.38%	$ 199.15	1.15000	$ 229.02
S. Ft. Myers5E		$ 5,095.68	0.42	7,231.23	$ 2.70	$ 7,233.93	$ 43.09	33.38%	$ 202.42	1.15000	$ 232.79
	Williston	$ 5,095.68	0.43	7,261.78	$ 2.70	$ 7,264.48	$ 43.09	33.38%	$ 203.27	1.15000	$ 233.76
	Groveland	$ 5,095.68	0.46	7,419.10	$ 2.70	$ 7,421.80	$ 43.09	33.38%	$ 207.65	1.15000	$ 238.80
Bakerd10		$ 5,095.68	0.46	7,424.77	$ 2.70	$ 7,427.47	$ 43.09	33.38%	$ 207.81	1.15000	$ 238.98
Kissimmee5E		$ 5,095.68	0.48	7,520.51	$ 2.70	$ 7,523.21	$ 43.09	33.38%	$ 210.47	1.15000	$ 242.04
	Freeport	$ 5,095.68	0.48	7,522.78	$ 2.70	$ 7,525.48	$ 43.09	33.38%	$ 210.53	1.15000	$ 242.11
	Glendale	$ 5,095.68	0.48	7,522.78	$ 2.70	$ 7,525.48	$ 43.09	33.38%	$ 210.53	1.15000	$ 242.11

DIGITAL PBX TRUNK PORT

Trunk Connection-DID allows calls to be terminated to a specific station. Multiline Hunt allows for dialtone for outgoing calls.

A	B	C	D	E = C + 1*D	F	G = E + F	H	I	J = ((G+ H)*I /) 12	K	L = J * K
		SCIS DID	Power Per DS1 Calculations Host/Remotes	DID+Pwr Add	SCIS Multiline Hunt	Port Related Investment+Pwr	C.O. Engineering	ACF	Monthly Port Exp.	Common Factor	TELRIC Cost
	Ponce De Leon	$ 5,095.68	0.48	7,522.78	$ 2.70	$ 7,525.48	$ 43.09	33.38%	$ 210.53	1.15000	$ 242.11
Winter Garden5E		$ 5,095.68	0.50	7,628.63	$ 2.70	$ 7,631.33	$ 43.09	33.38%	$ 213.48	1.15000	$ 245.50
DeFuniak SpringsD100		$ 5,095.68	0.51	7,713.52	$ 2.70	$ 7,716.22	$ 43.09	33.38%	$ 215.84	1.15000	$ 248.21
MonticelloD100		$ 5,095.68	0.51	7,717.39	$ 2.70	$ 7,720.09	$ 43.09	33.38%	$ 215.95	1.15000	$ 248.34
	Kenansville	$ 5,095.68	0.52	7,752.70	$ 2.70	$ 7,755.40	$ 43.09	33.38%	$ 216.93	1.15000	$ 249.47
	BuenaVentura Lakes	$ 5,095.68	0.52	7,752.70	$ 2.70	$ 7,755.40	$ 43.09	33.38%	$ 216.93	1.15000	$ 249.47
	St. Cloud	$ 5,095.68	0.52	7,752.70	$ 2.70	$ 7,755.40	$ 43.09	33.38%	$ 216.93	1.15000	$ 249.47
Grand RidgeD10		$ 5,095.68	0.52	7,759.50	$ 2.70	$ 7,762.20	$ 43.09	33.38%	$ 217.12	1.15000	$ 249.68
Naples Southeast5E		$ 5,095.68	0.53	7,813.17	$ 2.70	$ 7,815.87	$ 43.09	33.38%	$ 218.61	1.15000	$ 251.40
Cape Coral5e		$ 5,095.68	0.55	7,902.43	$ 2.70	$ 7,905.13	$ 43.09	33.38%	$ 221.09	1.15000	$ 254.26
GoldenGate5E		$ 5,095.68	0.58	8,033.29	$ 2.70	$ 8,035.99	$ 43.09	33.38%	$ 224.73	1.15000	$ 258.44
	Salt Springs	$ 5,095.68	0.59	8,077.76	$ 2.70	$ 8,080.46	$ 43.09	33.38%	$ 225.97	1.15000	$ 259.87
North Cape Coral5E		$ 5,095.68	0.65	8,417.40	$ 2.70	$ 8,420.10	$ 43.09	33.38%	$ 235.42	1.15000	$ 270.73
Punta Gorda5E		$ 5,095.68	0.69	8,587.28	$ 2.70	$ 8,589.98	$ 43.09	33.38%	$ 240.14	1.15000	$ 276.16
MadisonD100		$ 5,095.68	0.76	8,945.68	$ 2.70	$ 8,948.38	$ 43.09	33.38%	$ 250.11	1.15000	$ 287.63
Arcadia5E		$ 5,095.68	0.85	9,445.90	$ 2.70	$ 9,448.60	$ 43.09	33.38%	$ 264.03	1.15000	$ 303.63
SopchoppyD10		$ 5,095.68	0.88	9,585.92	$ 2.70	$ 9,588.62	$ 43.09	33.38%	$ 267.92	1.15000	$ 308.11
	St. Marks	$ 5,095.68	1.11	10,757.85	$ 2.70	$ 10,760.55	$ 43.09	33.38%	$ 300.52	1.15000	$ 345.60

Sprint Florida, Inc.

Docket 990649 - TP

Workpapers 16

FLORIDA SMALL NGDLC (Single-Ended)

LET

Description	Quantity	Cost
ASSEMBLIES		
CBA Supr Pkg 06A: CBA, CmnPkg06A	1	
19 CBA Projection Mount (5) Adapt. Kit *	1	
COMMON UNITS		0.00
Digital Link Processor	2	
TRANSCEIVERS		0.00
T1 Transceiver (DSX)	2	
Fiber Optic Transceivers	2	
ANALOG UNITS		0.00
L-Pay, LET Payphone Chnl. Unit	1	
L-UVG, LET Univ.Voice Grd.card Chnl.Unit	1	
DIGITAL UNITS (Cards used in special application)		0
L-ISDN, Local Exch. ISDN Channel Unit	1	
T-1A, T1 Asynch. Chnl. Unit (Powered)	1	
DSO-DP, Digital Signal Zero Data Port	1	
Total Material		$11,531.24
Sales Tax		$759.91
Eng. Labor COE (40hrs@$55.89/hr)		$2,235.60
Install Labor (Plant COE 72hrs@$43.86/hr)		$3,157.92
Labor	1	
COT Total		$17,684.67

Total DS1 spans/ 4 FIBERS/DS1- SPANS	5

SITE COST

Description	Quantity	Cost
Site Prep. (Mat. & Labor)	1	
Site Cost Total		

SYSTEM ALLOCATION

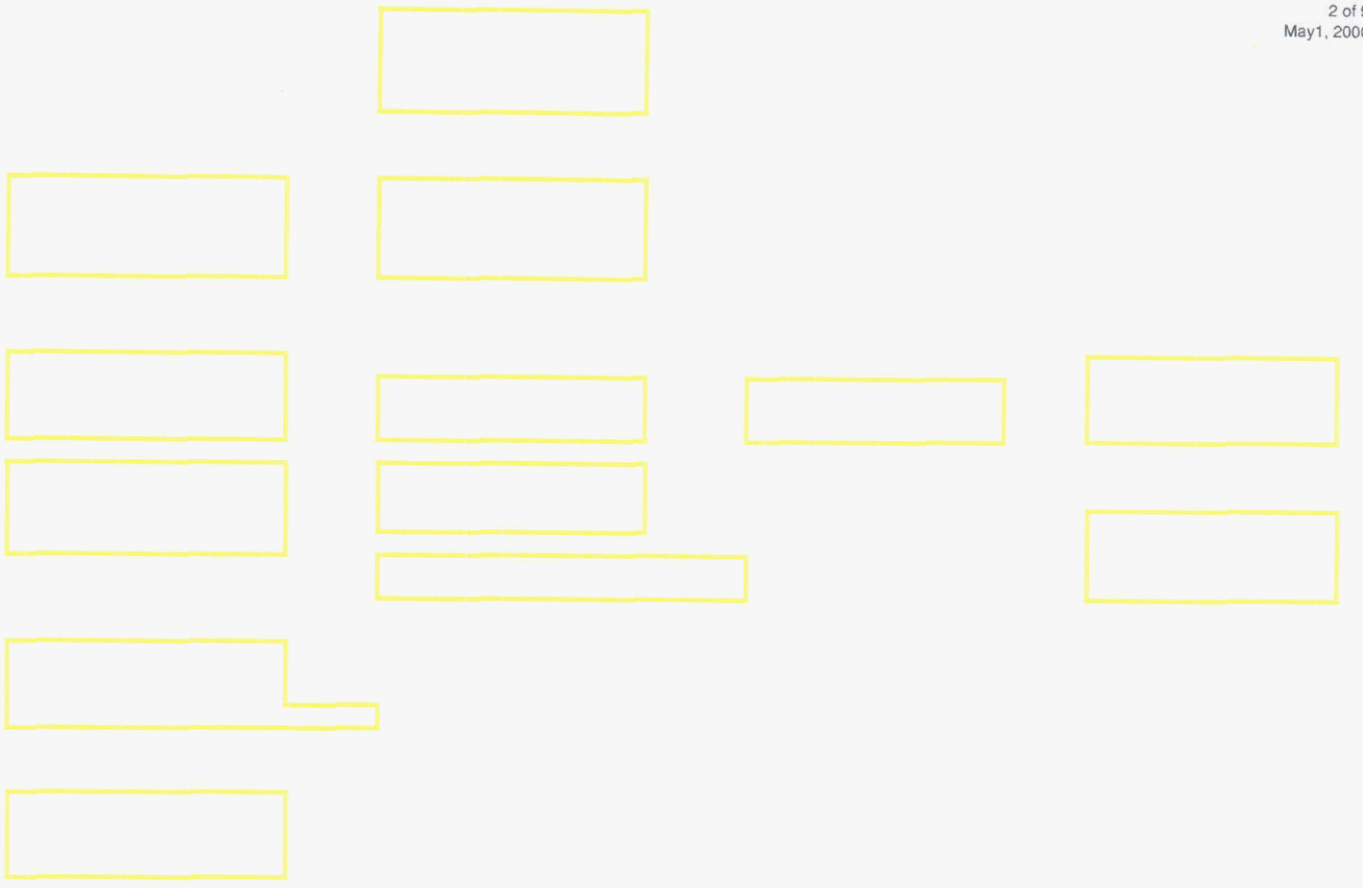
LET (15 RT's per)	$1,178.98
Total	$1,178.98

BCPM INPUT (With labor & Tax)

RT **0-48** lines Basic Common Eqpt.Invest		$20,283.65
RT **49-120** lines Basic Common Eqpt.Invest		$23,440.67
RT **121-240** lines Basic Common Eqpt.Invest		$32,470.65
COT **0-240** lines Basic Common Eqpt.Invest (allocated)		$1,178.98
POTS Channel Unit Investment (cost/line)		$85.41
Coin Channel Investment (cost/line)		$133.24
COT DLC Cost/Line	96Line Avg	$12.28
RT DLC Cost/Line Ext. Range Line Card/6 L	$799.44	$133.24
Digital Data Ch. Card 1 Line/card (COT&RT)		$1,338.50

REMOTE TERMINAL (copper dist.)

Description	Quantity	Cost
CABINETS		
48 48 Spkg.06b:48Pkg01D,CmnPkg06B	1	
120 Spkg.06A:120Pkg06A,CmnPkg06C,PwrPkg1	1	
240-2Spkg.06A:240-2Pkg06A,CmnPkg06D,PwrPkg1	1	
TRANSCEIVERS		0.00
Fiber Optic Transceiver	2	
ADDITIONAL EQUIPMENT		0.00
12 Position Fusion Fiber Splicing Tray	1	
(SC) 12 Position Fiber Dist. Panel	1	
Pour in Place Template	1	
240H-Frame	N/A	0.00
RCS/240 Battery Tray Warmer	N/A	0.00
AT&T IR-40C Batteries **(48)**	4	
AT&T IR-40C Batteries **(120)**	4	
AT&T IR-40C Batteries **(240)**	8	
RST TR8 LIF RST TR-008 Ln Item Feature (Pre-Inst)	N/A	0.00
120/240 Cable Management Riser Base 15"	1	
CHANNEL UNITS (Cards used in typical application)		0.00
R-POTS (6 lines/card)	1	
RST-PAY PHONE (6 lines/card)	1	
(R-EPOTS) RST Extended range POTS CH unit	1	
CHANNEL UNITS (Cards used in special application)		0
R-UVG (6 lines/card)	1	
OCU_DP, Office Channel Unit Data Port (1 digital ckt	1	
T-1A, T-1 Asynch. Chnl. Unit (Powered) (1 T-1 ckt)	1	
R-ISDN	1	
Total Material		$10,528.09
Sales Tax		$693.80
Eng. Labor COE (16hrs@$55.89/hr)		$894.24
Install Labor (Plant COE 32hrs@$43.86/hr)		$1,403.52
Labor	1	
RT Total **(48 lines)**		$13,519.65
Total Material		$13,489.92
Sales Tax		$888.99
Eng. Labor COE (16hrs@$55.89/hr)		$894.24
Install Labor (Plant COE 32hrs@$43.86/hr)		$1,403.52
Labor	1	
RT Total **(120 lines)**		$16,676.67
Total Material		$21,961.62
Sales Tax		$1,447.27
Eng. Labor COE (16hrs@$55.89/hr)		$894.24
Install Labor (Plant COE 32hrs@$43.86/hr)		$1,403.52
Labor	1	
RT Total **(240 lines)**		$25,706.65



Florida LARGE NGDLC (Single-Ended)

COT Misc. Equip. (Costed to supports 15 RT's)		
Description	Quantity	Ext.Cost
Rack	1	
Fuses and #6 Power Cable	1	
96 Fiber Patch Panel	1	
Fbr Jmpr 15 Mtr (FOT-ptch pnl)	4	
DSX-1 Panel 84 Port	1	
Cabling 500' (for DS1's)	1	
Total Material		$5,812.42
Sales Tax		$383.04
COT Misc. Equip.Total		$6,195.46

COT DLC		
DISC*S -Com-02 (1 shelf/672)	1	
LIU (384 Lns)	1	
LSU (384 Lns)	6	
DISC*S -Com-02 (1 shelf /672)	1	
LIU (672 Lns)	2	
LSU (672 Lns)	5	
DISC*S -Com-02 (1 shelf/672)	2	
LIU (1344 Lns)	3	
LSU (1344 Lns)	4	
DISC*S -Com-02 (1 shelf/672)	3	
LIU (2016 Lns)	4	
LSU (2016 Lns)	3	
DISC*S -COT-02	1	
Module for Supervisory Link	1	
DISC*S Coin SCU-12 (single)	1	
Terminal Block for Frame 8X24	1	
Total Material		$18,482.26
Sales Tax		$1,217.98
Eng. Labor COE (40hrs@$55.89/hr)		$2,235.60
Install Labor (Plant COE 98hrs@$43.86/hr)		$4,298.28
Labor	1	
COT DLC Total (384 Lines)		$26,234.13

OC3 FOT (COT)		
Description	Quantity	Ext.Cost
Alcatel 1603/12-COT-01 (includes 7'x23" rack)	1	
Heat Baffle w/ FO storage for OC3	1	
DS-1 connectorized I/O Panel	3	
DSX-1 Cabling Kit	3	
Common Cards w/ Optics Com-01 OC3	1	
VTG102 (4-DS1's /Crd) (384 Lns)	2	
VTG102 (4-DS1's /Crd) (672 Lns)	3	
VTG102 (4-DS1's /Crd) (1344 Lns)	4	
VTG102 (4-DS1's /Crd) (2016 Lns)	5	
Network Element Processor	1	
DS1 floating drop Group interface DMI102	2	
Total Material		$18,682.52
Sales Tax		$1,231.18
Eng. Labor COE (14hrs@$55.89/hr)		$782.46
Turnup Labor (Plant COE 19hrs@$43.86/hr)		$833.34
Labor	1	
COT FOT Total (384 Lns)		$21,529.50
Total Material		$19,132.19
Sales Tax		$1,260.81
Eng. Labor COE (14hrs@$55.89/hr)		$782.46
Turnup Labor (Plant COE 19hrs@$43.86/hr)		$833.34
Labor	1	
COT FOT Total (672 Lns)		$22,008.80
Total Material		$19,581.86
Sales Tax		$1,290.44
Eng. Labor COE (14hrs@$55.89/hr)		$782.46
Turnup Labor (Plant COE 19hrs@$43.86/hr)		$833.34
Labor	1	
COT FOT Total (1344 Lns)		$22,488.11
Total Material		$20,031.53
Sales Tax		$1,320.08
Eng. Labor COE (14hrs@$55.89/hr)		$782.46
Turnup Labor (Plant COE 19hrs@$43.86/hr)		$833.34
Labor	1	
COT FOT Total (2016 Lns)		$22,967.41

Florida LARGE NGDLC (Single-Ended)

Total Material		$19,535.54
BCPM INPUT (With labor & Tax)		$1,287.39
Eng. Labor COE (40hrs@$55.89/hr)		$2,235.60
Install Labor (Plant COE 98hrs@$43.86/hr)		$4,298.28
Labor	1	
COT DLC Total (762 Lines)		$27,356.81
Total Material		$33,608.51
Sales Tax		$2,214.80
Eng. Labor COE (40hrs@$55.89/hr)		$2,235.60
Install Labor (Plant COE 98hrs@$43.86/hr)		$4,298.28
Labor	1	
COT DLC Total (1344 Lines)		$42,357.20
Total Material		$47,681.49
Sales Tax		$3,142.21
Eng. Labor COE (40hrs@$55.89/hr)		$2,235.60
Install Labor (Plant COE 98hrs@$43.86/hr)		$4,298.28
Labor	1	
COT DLC Total (2016 Lines)		$57,357.58

Total COT wo/ CLEC card (384 Lns)	$32,429.59
Total COT wo/ CLEC card (762 Lns)	$33,552.27
Total COT wo/ CLEC card (1344 Lns)	$48,552.65
Total COT wo/ CLEC card (2016 Lns)	$63,553.04

OC3 FOT (RT)

Description	Quantity	Ext.Cost
Alcatel 1603/12-COT-01	1	
Fan Panel wo/ Filter	1	
DS-1 connectorized I/O Panel	3	
DSX-1 Cabling kit (384, 672, 1344)	3	
Factory installation of the 4 items above	1	
DSX-1 Cabling kit (2016)	6	
Common Cards w/OC3 Int. Reach Optics	1	
VTG102 (4-DS1's /Crd) (384 Lns)	2	
VTG102 (4-DS1's /Crd) (672 Lns)	3	
VTG102 (4-DS1's /Crd) (1344 Lns)	4	
VTG102 (4-DS1's /Crd) (2016 Lns)	5	
DS1 floating drop Group interface DMI102	2	
Network Element Processor	1	
Total Material		$19,166.61
Sales Tax		$1,263.08
Eng. Labor COE (8hrs@$55.89/hr)		$447.12
Install Labor (Plant COE 23hrs@$43.86/hr)		$1,008.78
Turnup Labor (Plant COE 16hrs@$43.86/hr)		$701.76
Labor	1	
RT FOT Total (384 Lns)		$22,587.35

Florida LARGE NGDLC (Single-Ended)

GR303 Interface

Description	Quantity	Ext.Cost
BCPM includes in Switch Input		

REMOTE TERMINAL (copper dist.)

Description	Quantity	Ext.Cost
Cabinet MESA4 (384)	1	
Protector SS 260VDC TP BLK	384	
Solid State 260VDC TP RED	28	
Lucent Batteries & equip. (384)	8	
Cabinet MESA4 (672)	1	
Protector SS 260VDC TP BLK	672	
Solid State 260VDC TP RED	28	
Lucent Batteries & equip.(672)	8	
Cabinet MESA4 (1344)	1	
Protector SS 260VDC TP BLK	1344	
Solid State 260VDC TP RED	28	
Lucent Batteries & equip.(1344)	16	
Cabinet MESA6 (2016)	1	
Protector SS 260VDC TP BLK	2016	
Solid State 260VDC TP RED	28	
Lucent Batteries & equip.(2016)	24	
84CKT DSX Panel	2	
Alarm Cable	1	
AWT Installation Charge	1	
Teradyne 4TEL 225 RMU	1	
96 Fiber Patch panel	1	
AC Pwr Transfer Switch	1	
Cabinet Pad Template	1	

Total Material		$19,616.28
Sales Tax		$1,292.71
Eng. Labor COE (8hrs@$55.89/hr)		$447.12
Install Labor (Plant COE 23hrs@$43.86/hr)		$1,008.78
Turnup Labor (Plant COE 16hrs@$43.86/hr)		$701.76
Labor	1	
RT FOT Total (672 Lns)		$23,066.65
Total Material		$20,065.95
Sales Tax		$1,322.35
Eng. Labor COE (8hrs@$55.89/hr)		$447.12
Install Labor (Plant COE 23hrs@$43.86/hr)		$1,008.78
Turnup Labor (Plant COE 16hrs@$43.86/hr)		$701.76
Labor	1	
RT FOT Total (2016 Lns)		$23,545.96
Total Material		$21,404.84
Sales Tax		$1,410.58
Eng. Labor COE (8hrs@$55.89/hr)		$447.12
Install Labor (Plant COE 23hrs@$43.86/hr)		$1,008.78
Turnup Labor (Plant COE 16hrs@$43.86/hr)		$701.76
Labor	1	
RT FOT Total (2016 Lns)		$24,973.08

COOL CELL CABINET

Description	Quantity	Ext.Cost
Cabinet	1	
Total Material		$5,925.84
Sales Tax		$390.51
Eng. Labor COE (8hrs@$55.89/hr)		$447.12
Install Labor (Plant COE 23hrs@$43.86/hr)	1	
Total Labor		1,455.90
COOL CELL Total		$7,772.25

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Florida LARGE NGDLC (Single-Ended)

Total Material	$36,069.66
Sales Tax	$2,376.99
RT Total (384)	$38,446.65
Total Material	$38,732.30
Sales Tax	$2,552.46
RT Total (672)	$41,284.76
Total Material	$46,016.44
Sales Tax	$3,032.48
RT Total (1344)	$49,048.92
Total Material	$70,304.21
Sales Tax	$4,633.05
RT Total (2016)	$74,937.25

SITE COST

Description	Quantity	Ext.Cost
Site Prep. (Mat. & Labor)	1	
Site Cost Total		$ 20,402.89

SYSTEM ALLOCATION

GR-303 terminal (covered in switch input)	
COT (15 RT's per) (384 Lns)	$2,161.97
OC# FOT (COT) (4 RT's per) (384)	$5,382.37
Total (384 Lns)	**$7,544.35**
COT (15 RT's per) (672 Lns)	$2,236.82
OC# FOT (COT) (4 RT's per) (672)	$5,502.20
Total (672 Lns)	**$7,739.02**
COT (15 RT's per) (1344 Lns)	$3,236.84
OC# FOT (COT) (4 RT's per) (1344)	$5,622.03
Total (1344 Lns)	**$8,858.87**
COT (15 RT's per) (2016 Lns)	$4,236.87
OC# FOT (COT) (4 RT's per) (2016)	$5,741.85
Total (2016 Lns)	**$9,978.72**

TERMINAL EQUIPMENT

Description	Quantity	Ext.Cost
DISC*S-COM-2 (1 shelf/672)	1	
LIU	1	
SFT5 20Hz Ring Generator	2	
LSU	6	
DISC*S-COM-2 (1 shelf/672)	1	
LIU	2	
SFT5 20Hz Ring Generator	2	
LSU	5	
DISC*S-COM-2 (1 shelf/672)	1	
LIU	3	
SFT5 20Hz Ring Generator	3	
LSU	4	
DISC*S-COM-2 (1 shelf/672)	1	
LIU	4	
SFT5 20Hz Ring Generator	4	
LSU	3	
DISC*S **Dual Ch Unit** DCU-20	1	
DISC*S Coin SCU-22 (single)	1	
Total Material		$16,698.17
Sales Tax		$1,100.41
Eng. Labor COE (72hrs@$55.89/hr)		$4,024.08
Install Labor (Plant COE 150hrs@$43.86/hr)		$6,579.00
Labor	1	
Terminal Cost Total (384)		$28,401.66

BCPM INPUT (With labor & Tax)

RT **241-384** lines Basic Common Eqpt.Invest		$117,610.80
RT **385-672** lines Basic Common Eqpt.Invest		$122,050.93
RT **673-1344** lines Basic Common Eqpt.Invest		$132,856.72
RT **1345-2016** lines Basic Common Eqpt.Invest		$162,328.64
COT **241-384** lines Basic Common Eqpt.Invest (allocated)		$7,544.35
COT **385-672** lines Basic Common Eqpt.Invest (allocated)		$7,739.02
COT **673-1344** lines Basic Common Eqpt.Invest (allocated)		$8,858.87
COT **1345-2016** lines Basic Common Eqpt.Invest (allocated		$9,978.72
POTS Channel Unit Investment (cost/line)		$53.35
Coin Channel Investment (cost/line) SCU12 & 22		$643.59
COT DLC Cost/Line (avg.of 384 & 672 lines)		$15.58
RT DLC Cost/Line Ext. Range Line Card/dual	$199.49	$99.74
DDS COT & RT (1Line / card)		$679.41

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Florida LARGE NGDLC (Single-Ended)

Total Material		$17,751.47
Sales Tax		$1,169.82
Eng. Labor COE (72hrs@$55.89/hr)		$4,024.08
Install Labor (Plant COE 150hrs@$43.86/hr)		$6,579.00
Labor	1	
Terminal Cost Total (672)		$29,524.37
Total Material		$20,155.38
Sales Tax		$1,328.24
Eng. Labor COE (72hrs@$55.89/hr)		$4,024.08
Install Labor (Plant COE 150hrs@$43.86/hr)		$6,579.00
Labor	1	
Terminal Cost Total (1344)		$32,086.70
Total Material		$22,178.52
Total w/SNS 11.03%		$24,624.81
Sales Tax		$1,461.56
Eng. Labor COE (72hrs@$55.89/hr)		$4,024.08
Install Labor (Plant COE 150hrs@$43.86/hr)		$6,579.00
Labor	1	
Terminal Cost Total (2016)		$34,243.16

Total RT wo/ CLEC card (384 Lns)	$66,848.31
Total RT wo/ CLEC card (672 Lns)	$70,809.14
Total RT wo/ CLEC card (1344 Lns)	$81,135.62
Total RT wo/ CLEC card (2016 Lns)	$109,180.42

labor

COT Misc.Equip.	$5,812.42	726.55	992	-265.45
COT DLC	$18,482.26	2310.28	2208	102.28
COT FOT	$18,682.52	2335.31	2400	-64.69
RT FOT	$19,166.61	2395.83	1974	421.83
RT Cabinet	$49,048.92	6131.12	5994	137.12
RT Terminal Equip.	$16,698.17	2087.27	4619	-2531.73
	$127,890.90	15986.36	18187	-2200.64
	$138,595.88	$0.00	$138,595.88	

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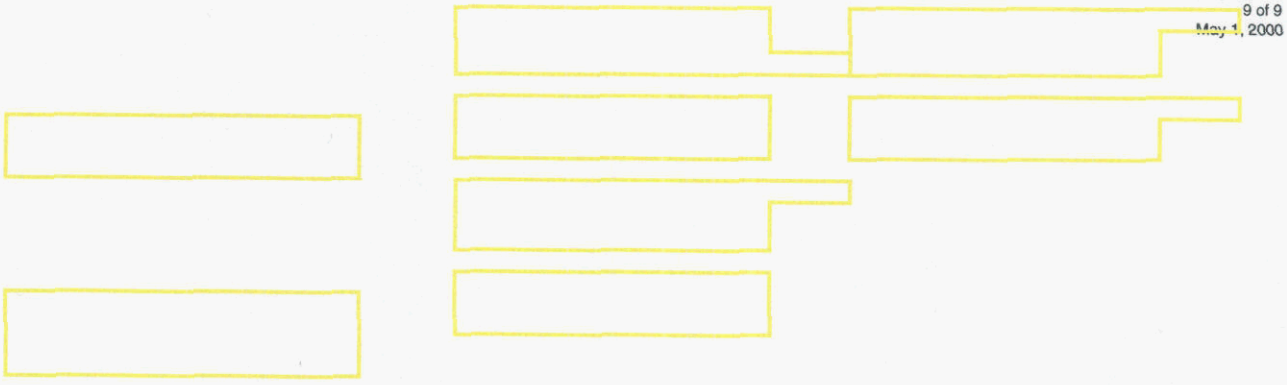

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DS3 Grid Table

SWCLLI	FDI Code	DS3 Count
WNPKFLXADS1	1001299	
TVRSFLXADS0	3102248	
TLHSFLXDDS0	2008339	
TLHSFLXDDS0	3004229	
TLHSFLXCDS0	3004299	
TLHSFLXCDS0	3005499	
TLHSFLXBDS0	1007265	
TLHSFLXBDS0	1007297	
TLHSFLXADS0	2001399	
TLHSFLXADS0	2002199	
TLHSFLXADS0	4001199	
TLHSFLXADS0	4004336	
TLHSFLXADS0	4005399	
TLHSFLXADS0	4007399	
OCALFLXBDS0	3003299	
OCALFLXADS0	3002499	
NPLSFLXDDS0	2010313	
NNPLFLXADS1	4007159	
NFMYFLXBDS0	1001499	
MTLDFLXADS1	1002299	
MTLDFLXADS1	1004299	
MTLDFLXADS1	1005499	
MTLDFLXADS1	2001399	
MTLDFLXADS1	4001199	
MTLDFLXADS1	4003199	
LKBRFLXADS1	1006299	
KSSMFLXBDS1	2201299	
KSSMFLXADS0	1011454	
GLRDFLXADS0	1007455	
GLRDFLXADS0	4001339	
GLGCFLXADS0	2002199	
FTWBFLXBDS0	3002499	
FTWBFLXADS0	3002299	
FTMYFLXCDS2	1008499	
FTMYFLXADS0	3001299	
FTMYFLXADS0	4003399	
FTMYFLXADS0	4006199	
CYLKFLXBRS0	2002199	
BVHLFLXADS0	4006199	
APPKFLXADS1	1007499	

******NOTE: THIS TABLE MUST BE POPULATED IN THE MISCELLANEOUS INPUTS WORKSHEET, AND THE MODEL MUST BE REPROCESSED IN ORDER TO REPLICATE THE RESULTS FILED BY SPRINT.

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INVENTORY - 'Interexchange - Middle Section Only

STATE - FLORIDA

											Average Lit Fibers
UltraHigh	288	144	96	72	60	48	36	24	18	12	
	FTMYFLXA - FTMYFLXC										
# of Working Fibers			36								
	WNPKFLXE - WNPKFLXA										
# of Working Fibers							20				
	GLRDFLXA - WNPKFLXA										
# of Working Fibers								22			26

Med/High	288	144	96	72	60	48	36	24	18	12	
	MTLDFLXA - WNPKFLXA										
# of Working Fibers						12					
	CLMTFLXA - LSBGFLXA										
# of Working Fibers								14			
	TLHSFLXA - TLHSFLXB										
# of Working Fibers		20									
	MTDRFLXA - ESTSFLXA										
# of Working Fibers									16		
	CTLDFLXA - MRNNFLXA										
# of Working Fibers										8	
	KNVLFLXA - STCDFLXA										
# of Working Fibers										4	
	PNGRFLXA - PTCTFLXA										
# of Working Fibers			10								
	TLHSFLXB - TLHSFLXD										
# of Working Fibers								4			
	OCALFLXA-OCALFLXB										
# of Working Fibers						8					
	BLVWFLXA-OCALFLXC										
# of Working Fibers										10	
	DDCYFLXA-TLCHFLXA										
# of Working Fibers									8		
	ALSPFLXA-CSLBFLXA										
# of Working Fibers								10			
	NPLSFLXC-NPLSFLXD										
# of Working Fibers										4	
	MOISFLXA-NPLSFLXC										
# of Working Fibers							4				
	SBNGFLXA-SLHLFLXA										
# of Working Fibers						8					9.3
											Roundup to: 10

Low	288	144	96	72	60	48	36	24	18	12	
	PTCTFLXA - CPHZFLXA										
# of Working Fibers										6	
	BWLGFLXA - WCHLFLXA										
# of Working Fibers										6	
	BVHLFLXA - CRRVFLXA										
# of Working Fibers									8		
	ESTSFLXA - UMTLFLXA										
# of Working Fibers										4	
	OCALFLXC - OCNFFLXA										
# of Working Fibers							10				
	NFMYFLXA-NFMYFLXB										
# of Working Fibers							8				
	TLHSFLXA-TLHSFLXE										
# of Working Fibers							2				
	CRVWFLXA-DFSPFLXA										
# of Working Fibers									4		
	GNVLFLXA-MDSNFLXA										
# of Working Fibers										4	
	BCGRFLXA - CPHZFLXA										
# of Working Fibers								4			
	ASTRFLXA - UMTLFLXA										
# of Working Fibers								4			
	OCNFFLXA - SSPRFLXA										
# of Working Fibers								4			
	HOWYFLXA - LSBGFLXA										
# of Working Fibers								4			5.2
											Roundup to: 6

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Alcatel OC-3 Central Office Terminal (7'-0")
Equipped with 2 DS-3s

Matcode	Configuration P/N.	Configuration Description	Qty	Unit Price	Material Price
030464	1603 SMX-COT-01	7 FT frame assembly w/1-RS PDU w frame bus kit (1) 625002-000-008 Fan Panel with Filter (1) 3EM02211AA SLM201 SMX Shelf			
030469	1603 SMX-COM-01	SMX COM-01 includes:			
	600308-393-001	PWR A01 Power Converter	3		
	3AL00124AB	CLK 202 Clock Unit	2		
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	1		
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	2		
020733	3AL00378AB	NEP 402 Network Processor w/ LAN	1		
	3AL00308AA	HIFB01 High Speed OC3 IR 1310nm FC/PC	2		
012270	3EM02991AAAA	HD Coax/Baffle/Fiber Panel	1		
030479	3AL02830ABAC	ADR48 R1.01 Ring Network Software CD ROM	1		
		TOTAL 1603			
030480	1603 SMX-SPR-01	**Spares include the following:**			
	600308-393-001	PWR A01 Power Converter	0.25		
	3AL00124AB	CLK 202 Clock Unit	0.25		
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	0.25		
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	0.25		
005803	3AL00114AB	625611-000-002 DS1 Floating Drop Interface DMI102	0.25		
005802	625611-000-002	3AL00114AB Virtual Group Interface VTG102(4DS-1's/card)	0.25		
421872	3AL00328AA	LIF701 DS3 Interface	0.25		
012288	3AL00290AA	LDR 101 Line Driver/Receiver	0.25		
		Optional Spares to be added	0.25		
	3AL00308AA	HIFB01 High Speed OC3 IR 1310nm FC/PC	0.25		
		TOTAL SPARES			
		DS3/STS1 Interface Cards			
421872	3AL00328AA	LIF701 DS3 Interface	4		
012288	3AL00290AA	LDR 101 Line Driver/Receiver	4		
	3EM02075AA	CIOP 401 DS3/STS1 Input/Output Panel	1		
	601303-540-042	Coax Ribbon Cable Assy w/ 8 BNC, 42"	1		
		DS3 Interface Cards (Terminal equipped for 2 DS3s)			
		Per DS3			
		ENGINEERING HOURS	41		
		INSTALLATION HOURS	97		
		per DS1			
		ENGINEERING HOURS	32		
		INSTALLATION HOURS	68		

Redacted

Alcatel OC-12 Central Office Terminal (7'-0")
Equipped with 9 DS-3s

Matcode	Configuration P/N.	Configuration Description	Qty	Unit Price	Material Price
030464	1603 SMX-COT-01	7 FT frame assembly w/1-RS PDU w frame bus kit (1) 625002-000-008 Fan Panel with Filter (1) 3EM02211AA SLM201 SMX Shelf			
030469	1603 SMX-COM-01	SMX COM-01 includes:			
	600308-393-001	PWR A01 Power Converter	3		
	3AL00124AB	CLK 202 Clock Unit	2		
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	1		
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	2		
020731	3AL00378AA	NEP 401 Network Processor w/ LAN	1		
020653	3AL00238AC	HIF 603 High Speed OC12 IR 1310nm FC/PC	2		
012270	3EM02991AAAA	HD Coax/Baffle/Fiber Panel	1		
030479	3AL02830ABAC	ADR48 R1.01 Ring Network Software CD ROM	1		
	601303-540-042	Coax Ribbon Cable Assy w/ 8 BNC, 42"	1		
		TOTAL 1603			
030480	1603 SMX-SPR-01	**Spares include the following:**			
	600308-393-001	PWR A01 Power Converter	0.25		
	3AL00124AB	CLK 202 Clock Unit	0.25		
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	0.25		
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	0.25		
005803	3AL00114AB	625611-000-002 DS1 Floating Drop Interface DMI102	0.25		
005802	625611-000-002	3AL00114AB Virtual Group Interface VTG102(4DS-1's/card)	0.25		
012287	3AL00224AC	LIF502 QUAD DS3/STS1 Interface	0.25		
012288	3AL00290AA	LDR 101 Line Driver /Receiver	0.25		
		Optional Spares to be added			
020653	3AL00238AC	HIF 603 High Speed OC12 IR 1310nm FC/PC	0.25		
		TOTAL SPARES			
		4 DS3/STS1 Interface Cards			
012287	3AL00224AC	LIF502 QUAD DS3/STS1 Interface*	6		
012288	3AL00290AA	LDR 101 Line Driver /Receiver**	18		
	3EM02075AA	CIOP 401 DS3/STS1 Input/Output Panel	1		
		4 DS3 Interface Cards (Terminal equipped w/ 9 DS3s) per DS3			
		ENGINEERING HOURS	41		
		INSTALLATION HOURS	97		

* 1 to 4 DS3s require two line interfaces: one working, one back-up.
Therefore, 4 cards provide 8 DS3s. Two more cards would be required to get the 9th DS3.

** 2 line drivers / receivers per working DS3.

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Alcatel OC-48 Central Office Terminal (7'-0")
Equipped with 36 DS-3s

Matcode	Configuration P/N.	Configuration Description	Qty	Unit Price	Material Price
030464	1603 SMX-COT-01	7 FT frame assembly w/1-RS PDU w frame bus kit (1) 625002-000-008 Fan Panel with Filter (1) 3EM02211AA SLM201 SMX Shelf			
030469	1603 SMX-COM-01	SMX COM-01 includes:			
	600308-393-001	PWR A01 Power Converter	3		
	3AL00124AB	CLK 202 Clock Unit	2		
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	1		
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	2		
030471	3AL00378AF	NEP 603 Network Processor w/o LAN	1		
030476	3AL00338AA	HIF F01 High Speed OC48 IR 1310 nm FC/PC	2		
012270	3EM02991AAAA	HD Coax/Baffle/Fiber Panel	1		
030479	3AL02830ABAC	ADR48 R1.01 Ring Network Software CD ROM	1		
016155	3EM02079AA	LIF D01 12xDS3/STS1 Low Speed Interface	4		
	3EM02065AA	LDR 501 Dual DS-3/STS1 Line Driver	12		
	3EM02075AA	CIOP 401 DS3/STS1 Input/Output Panel	1		
	3AL00xxxAA	Quad OC3/OC12 interface, FC/PC	2		
		TOTAL 1603			
030480	1603 SMX-SPR-01	**Spares include the following:**			
	600308-393-001	PWR A01 Power Converter	0.25		
	3AL00124AB	CLK 202 Clock Unit	0.25		
	3AL00380AG	COA 607 Craft, OW & Alm w/ dual exp mem	0.25		
	3AL00424AA	CCM 101 Software Programmable OC48 Xconn	0.25		
012287	3AL00224AC	LIF502 QUAD DS3/STS1 Interface	0.25		
012288	3AL00290AA	LDR 101 Line Driver /Receiver	0.25		
	3AL00xxxAA	Quad OC3/OC12 interface, FC/PC (4 OC3s or OC12s per card)	0.25		
		Optional Spares to be added			
030476	3AL00338AA	HIF F01 High Speed OC48 IR 1310 nm FC/PC	.25		
		TOTAL SPARES			
		4 DS3/STS1 Interface Cards			
012287	3AL00224AC	LIF502 QUAD DS3/STS1 Interface*	18		
012288	3AL00290AA	LDR 101 Line Driver /Receiver**	72		
	3EM02075AA	CIOP 401 DS3/STS1 Input/Output Panel	1		
		4 DS3 Interface Cards (Terminal equipped w/ 36 DS3s) per DS3			

* 1 to 4 DS3s require two line interfaces: one working, one back-up.
Therefore, 18 cards provide 36 DS3s.

** 2 line drivers / receivers per working DS3.

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BREAK POINTS

	OC3			
# of DS3s Needed	# of OC3 Terminals	Common	DS3s	Total
1	1			
2	1			
3	2			
4	2			
5	3			
6	3			
7	4			
8	4			
9	5			
10	5			
11	6			
12	6			
13	7			
14	7			
15	8			
16	8			
17	9			
18	9			
19	10			
20	10			
21	11			
22	11			
23	12			
24	12			
25	13			
26	13			
27	14			
28	14			
29	15			
30	15			
31	16			
32	16			
33	17			
34	17			
35	18			
36	18			
37	19			
38	19			
39	20			
40	20			
41	21			
42	21			
43	22			
44	22			
45	23			
46	23			
47	24			

	OC12		
# of OC12 Terminals	Common	DS3s	Total
1			
1			
1			
1			
1			
1			
1			
1			
1			
2			
2			
2			
2			
2			
2			
2			
2			
2			
3			
3			
3			
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4			
4			
4			
4			
4			
4			
4			
5			
5			
5			
5			
5			
5			
5			
5			
5			
6			
6			

	OC48A		
# of OC48A Terminals	Common	DS3s	Total
1			
1			
1			
1			
1			
1			
1			
1			
1			
1			
1			
1			
1			
1			
1			
1			
1			
1			
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1			
1			
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1			
1			
1			
1			
1			
1			
1			
2			
2			
2			
2			
2			
2			
2			
2			
2			
2			
2			
2			

Redacted

BREAK POINTS

	OC3				OC12				OC48A			
# of DS3s Needed	# of OC3 Terminals	Common	DS3s	Total	# of OC12 Terminals	Common	DS3s	Total	# of OC48A Terminals	Common	DS3s	Total
48	24				6				2			
49	25				6				2			
50	25				6				2			
51	26				6				2			
52	26				6				2			
53	27				6				2			
54	27				6				2			
55	28				7				2			
56	28				7				2			
57	29				7				2			
58	29				7				2			
59	30				7				2			
60	30				7				2			
61	31				7				2			
62	31				7				2			
63	32				7				2			
64	32				8				2			
65	33				8				2			
66	33				8				2			
67	34				8				2			
68	34				8				2			
69	35				8				2			
70	35				8				2			
71	36				8				2			
72	36				8				2			
73	37				9				3			
74	37				9				3			
75	38				9				3			
76	38				9				3			
77	39				9				3			
78	39				9				3			
79	40				9				3			
80	40				9				3			
81	41				9				3			
82	41				10				3			
83	42				10				3			
84	42				10				3			
85	43				10				3			
86	43				10				3			
87	44				10				3			
88	44				10				3			
89	45				10				3			
90	45				10				3			
91	46				11				3			
92	46				11				3			
93	47				11				3			
94	47				11				3			

BREAK POINTS

OC3					OC12				OC48A			
# of DS3s Needed	# of OC3 Terminals	Common	DS3s	Total	# of OC12 Terminals	Common	DS3s	Total	# of OC48A Terminals	Common	DS3s	Total
95	48				11				3			
96	48				11				3			
97	49				11				3			
98	49				11				3			
99	50				11				3			
100	50				12				3			
101	51				12				3			
102	51				12				3			
103	52				12				3			
104	52				12				3			
105	53				12				3			
106	53				12				3			
107	54				12				3			
108	54				12				3			
109	55				13				4			
110	55				13				4			
111	56				13				4			
112	56				13				4			
113	57				13				4			
114	57				13				4			
115	58				13				4			
116	58				13				4			
117	59				13				4			
118	59				14				4			
119	60				14				4			
120	60				14				4			
121	61				14				4			
122	61				14				4			
123	62				14				4			
124	62				14				4			
125	63				14				4			
126	63				14				4			
127	64				15				4			
128	64				15				4			
129	65				15				4			
130	65				15				4			
131	66				15				4			
132	66				15				4			
133	67				15				4			
134	67				15				4			
135	68				15				4			
136	68				16				4			
137	69				16				4			
138	69				16				4			
139	70				16				4			
140	70				16				4			
141	71				16				4			

BREAK POINTS

	OC3				OC12				OC48A			
# of DS3s Needed	# of OC3 Terminals	Common	DS3s	Total	# of OC12 Terminals	Common	DS3s	Total	# of OC48A Terminals	Common	DS3s	Total
142	71				16				4			
143	72				16				4			
144	72				16				4			
145	73				17				5			
146	73				17				5			
147	74				17				5			
148	74				17				5			
149	75				17				5			
150	75				17				5			
151	76				17				5			
152	76				17				5			
153	77				17				5			
154	77				18				5			
155	78				18				5			
156	78				18				5			
157	79				18				5			
158	79				18				5			
159	80				18				5			
160	80				18				5			
161	81				18				5			
162	81				18				5			
163	82				19				5			
164	82				19				5			
165	83				19				5			
166	83				19				5			
167	84				19				5			
168	84				19				5			
169	85				19				5			
170	85				19				5			
171	86				19				5			
172	86				20				5			
173	87				20				5			
174	87				20				5			
175	88				20				5			
176	88				20				5			
177	89				20				5			
178	89				20				5			
179	90				20				5			
180	90				20				5			

Redacted

Bands

# of DS3s	Terminal Size	Common Costs	Times 2 (for both ends)	Cost per DS3	Times 2 (for both ends)
0-2	OC3				
3-9	OC12				
10-18	OC12				
19-36	OC48 Uni				
37-72	OC48 Uni				
73-108	OC48 Uni				
109-144	OC48 Uni				
145-180	OC48 Uni				